

Shiksha Mandal's

Bajaj College of Science, Wardha

(Formerly known as Jankidevi Bajaj College of Science)

4th Cycle: Assessment and Accreditation by NAAC



Criterion III

Research, Innovations and Extension

QnM 3.7.1

Number of Collaborative activities per
year for research/ faculty exchange/
student exchange/ internship/ on –the-
job training/ project work



Bajaj College of Science, Wardha

(Formerly known as Jankidevi Bajaj College of Science)
An Autonomous College affiliated to RTM Nagpur University, Nagpur
NAAC Reaccredited 'A' with CGPA of 3.21
(A Linguistic Minority College)



Prof. Pradip. V. Tekade
Principal (Offg.)

Email : jbsciencewardha@yahoo.co.in
pradiptekade@gmail.com

Ref. No. BCS/ /20 -20


Date : 27 DEC 2022

DECLARATION

This is to declare that the information and data furnished as supporting/additional document in the metric 3.7.1 *Number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on -the-job training/ project work* are true to the best of my knowledge and is verified by IQAC.


Dr. M. R. Chandrakar
IQAC Co-ordinator




Prof. P. V. Tekade
Principal (Offg.)
Offi. Principal
Bajaj College of Science
WARDHA



Shiksha Mandal's
Bajaj College of Science, Wardha

An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur



In Association with

St. Xavier's College (Autonomous), Mumbai

INVITES APPLICATION FOR

Certificate Course in

INDUSTRIAL WASTEWATER MANAGEMENT

Eligibility: UG, Graduate & PG Science Students

Seats: 50

Course Fee:

Rs. 350/- (Students of Parent Institute)

Rs. 500/- (Other Students)

Last date for Registration:

25th November 2021

About Certificate Course:

<https://drive.google.com/file/d/1JCQ8tyYzjq0J4E93HQVLioWGdvJAidz0/view?usp=sharing>

Registration Link:

<https://forms.gle/e5AvxA9PkP8HRrnz6>

Patrons

Dr. O. A. Mahodaya

Principal, Bajaj College of Science, Wardha

Dr. Rajendra Shinde

Principal, St. Xavier's College, Mumbai

Course Facilitators

Dr. Pradip Tekade

Head/In-charge, Dept. of Chemistry,
Bajaj College of Science, Wardha

Mr. Marazban Kotwal

Head, Dept. of Chemistry
St. Xavier's College, Mumbai

Course Coordinators

Dr. Mahejabeen Haque

Bajaj College of Science, Wardha

+91-7028308023

Dr. Abhilasha Jain

St. Xavier's College, Mumbai

+91-7506270677

About: Bajaj College of Science, Wardha

<http://bsw.shikshamandal.org/>

About: St. Xavier's College, Mumbai

<https://xaviers.edu/main/>



Bajaj College of Science, Wardha (Autonomous)
Department of Chemistry

In Association with

St. Xavier's College (Autonomous), Mumbai

Organizes



Skill based Certificate Course On
“INDUSTRIAL WASTEWATER MANAGEMENT”

Specifications of Course:

A) Nature	- Certificate Course
B) Duration	- 60 hrs
C) No. Of Students to be admitted	- 50
D) Fee Proposed	- 350/- (Students of Parent Institutes) - 500/- (Other Students)

I. COURSE OVERVIEW:

This course provides an understanding of various processes involved in the treatment of wastewater generated due to the anthropogenic activities prior to its discharge into the environment or its re-use. This course aids to understand various terminologies used in industrial wastewater treatment and to acquaint with different stages involved in treatment of industrial wastewater.

II. PREREQUISITE(S): UG/PG

III. COURSE OBJECTIVES:

The objective of the course is to impart knowledge and skills to the learner to:

1. Distinguish between the quality of domestic and industrial water requirements.
2. Understand the industrial process, water utilization and wastewater generation.
3. Impart knowledge on selection of treatment methods for industrial wastewater.
4. Gain knowledge on different techniques and methods for minimizing the generation.
5. Application of physicochemical and biological treatment methods for recovery, reuse and disposal of industrial wastewater.

IV. COURSE OUTCOMES:

After completion of this course, the student will be able to demonstrate the knowledge and will have the ability to:

1. Identify environmental standards that apply to both direct and indirect industrial discharges.
2. Develop an overall treatment strategy for an industrial waste stream.

3. Specify design criteria for physical, chemical, and biological unit operations and processes necessary to treat an industrial wastewater.
4. Define and reason about fundamental concepts of wastewater treatment.
5. Design, conduct experiments and the ability to analyse the wastewater quality.
6. Select the most appropriate technique to control and treat industrial pollution.
7. Enhanced skills of the students will increase their employability in the related industries.

Mode of Teaching:

The theory lectures and practical sessions of the course will be conducted via Online mode i.e. Pre-recorded video lectures and/or online lectures.

Shiksha Mandal's
Establishment Year : 1962

Bajaj College of Science, Wardha

Autonomous College affiliated to RTMNU, Nagpur

(A Linguistic Minority College)

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with Potential for Excellence, UGC, New Delhi

Star College Scheme by DBT Govt. of India, New Delhi

Office/Fax : (07152) 230515

Admn. Off. : (07152) 241696

Library : (07152) 255070

E-mail : jbsciencewardha@yahoo.co.in

website : jbsw.shikshamandal.org



Jamnala Bajaj Marg

Civil Line

Wardha - 442 001

(Maharashtra)

Uni. College No. : 802

Jr. College No. : 07-01-003

Ref No. J.B.C./ /2020-2021

Date : 13/04/2022

Certificate

This is to certify that the work presented under Project entitled "**A Potential Use of Banana (*Musa balbisiana*) Tree and its Parts in Cosmetic and Textile Applications: A Review**" is the own work of **Mr. Ashwin Ravidas Tawekar**

Conducted in the P.G. Department of Chemistry, Bajaj college of Science, Wardha & MGRI, Wardha.

Date : 13/06/2022

Place : Wardha

Dr. Pradip V. Tekade
Internal Supervisor

PRINCIPAL
of BAJAJ
WARDHA

Mr. Vikas Choudhary
External Supervisor
RCI, MGRI, Wardha

ShikshaMandal's
Establishment Year : 1962

Bajaj College of Science, Wardha

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Jamnalal Bajaj Marg

Civil Line

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(Maharashtra)

Uni. College No. : 802

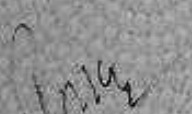
Jr. College No. : 07-01-003

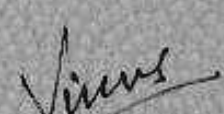
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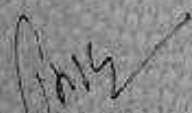
Date 13/06/2022


Certificate

This is to certify that the work presented under Project entitled "**Macro and micronutrients in agriculture: their applications, role, effect, and doses. A Review**" is the own work of **Mr. Gaurav Gulab Gurnule** conducted in the P.G. Department of Chemistry, Bajaj college of Science, Wardha & MGIRI, Wardha.


Dr. Pradip V. Tekade
Internal Supervisor


Mr. Vikas Choudhary
External Supervisor
RCI, MGIRI, Wardha


Dr. Pradip V. Tekade
Head/ Incharge
Department of Chemistry


Dr. Om A. Mahodaya
Principal
Bajaj College of Science, Wardha

ShikshaMandal's
Establishment Year - 1962

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website : jbsw.shikshamandal.org




Jamnala Bajaj Marg
Civil Line
Wardha - 442 001 (Maharashtra)
Unl. College No. : 802
Jr. College No. : 07-01-003


Ref No. J.B.C./ /20 -20


Date : / /20

Certificate

This is to certify that the work presented under Project entitled "**Biodegradable, Sustainable, Efficient Biocomposite Phosphorylated Chitosan Modified Flame Retardant with Agro Waste Product: Banana Pseudostem**" is the own work of **Miss Ayushi Nitin Deshmukh** Student of Fergusson college, Pune (Department of chemistry) who successfully carried out mentorship summer project of INSPIRE SHE Programme for **49 Days (7 weeks)** (Date of commencement: **27/09/2021** and Date of completion: **15/11/2021**) in the Department of Chemistry, Jankidevi Bajaj college of Science, Wardha.


Project Supervisor
(Dr. Akhil V. Nakhate)


Project Co-Supervisor
(Dr. P. V. Tekade)


Dr. P. V. Tekade
Head/Incharge
Department of Chemistry
Bajaj College of Science
WARDHA


Dr. Om A. Mahadaya
Principal
Bajaj College of Science
Wardha

FERGUSSON COLLEGE, PUNE

DEPARTMENT OF CHEMISTRY

NO OBJECTION LETTER FOR UNDERGOING SUMMER PROJECTS OF INSPIRE SCHOLARSHIP

Name of student: **AYUSHI NITIN DESHMUKH**

Roll no: 4222 Student id: 673331

College: Fergusson college (Autonomous), Pune

Duration of visit for summer project: from 27/09/2021 to 11/11/2021

Name of institutions in full where mentorship research project will be undertaken:

Jankidevi Bajaj College of Science, Wardha

Name, Designation, Phone-no, Email of Research advisor at mentor institution:

DR. AKHIL V. NAKHATE

Professor

9323081346

akhiln30@gmail.com

Date: 23/11/2021

Signature of student:

The department has no objection to undertake project in above institution.

Signature of Head of Department

Dept. of Chemistry
Fergusson College, Pune-41



Welcome Miss Ayushi Nitin Beshmukh
IVR Number: 201900006412

Logout

[Change Password](#)

[Update Profile](#)

Select Language:

[English](#)

[हिंदी](#)

Scholarship - Mentorship Application List

[+ Apply For Mentorship](#)

Name of Scholar	Application Reference Number	Title of the Project	Name Of Research Supervisor	Host Institute	Broad Area of Research Project
Miss AyushiDeshmukh	DST/INSPIRE/02/2019/010034	Flame Retardant from Banana Pseudostem	Dr Akhil V Nakhate	Jankidevi Bajar College of Science Wardha	Banana Pseudostem show flame retardancy

**MAHARASHTRA STATE BOARD OF SECONDARY & HIGHER
SECONDARY EDUCATION, PUNE**

NAGPUR DIVISIONAL BOARD

Advisory Note to the Candidate for Eligibility in Scholarship for Higher Education (SHE) component under INSPIRE Scheme

It is declared/certified that **DEEPMUKH AYUSHI NITIN**

of Seat No. **N051069**

and having College Index Number **0794004**

is eligible for award of Scholarship for Higher Education (SHE) under Innovation in Science Pursuit for Inspired Research (INSPIRE) by virtue of performance within top 1% of the school Board at Class XII Level in the examination held during the academic session ending March 2019.

Performance in top 1% in Class XII Board examination and followed by enrolment into education in Basic and Natural Science course at B. Sc./Integrated M. Sc. Or MS level shall make you eligible for consideration in INSPIRE Scholarship for Higher Education of GoI valued at Rs. 80,000 per year for five years.

After enrolling yourself into Bachelor or Integrated Master's level programme in Basic and Natural Science courses given at <http://www.inspire-dst.gov.in/SHE.html>. (Select Blank format Option -Endorsement Certificate) in any University or College in India, recognized by UGC, India, you are advised to register in Scholarship for Higher Education (SHE) through online registration at www.online-inspire.gov.in and apply with required documents through ONLINE MODE only, as and when this scheme is opened/announced for submission of application.

Scholarship under SHE would be granted, if you have applied for it through ONLINE mode only. Application sent via post and other OFFLINE modes will be summarily rejected. As the number of Scholarship under SHE are fixed w. r. t. large number of eligible students from various Educational Boards, the repositioning of cut-off may take place.

Please note that this Advisory Note is issued to you for intimation only. It is neither a selection letter of INSPIRE-SHE scholarship nor any guarantee to offer the said scholarship to you by INSPIRE PROGRAMME DIVISION.



Secretary
Maharashtra State Board Of Secondary & Higher
Secondary Education, Pune
NAGPUR DIVISIONAL BOARD

(Signature With Seal)

To Principal
Jankidevi Bajaj College of Science, Wardha

Through : Head of Department
Department of Chemistry

Application: Regarding Research Project work under
DST - Inspire scholarship programme.

Respected Sir,

I am a student of Ferguson College, Pune and
Studying in final year (2021-22). I have been awarded
with DST programme - Inspire Scholarship for Higher Education.
In this, I have to do mentorship programme and
submit Research Project. Hence I am writing to you
this application. I want to do my Research project in
your prestigious college in Chemistry Department for
4 to 6 weeks. So, please give me permission to do.

Thank you!

Ayushi Deshmukh

Mob: 9823746570

Email ID: ayushideshmukh70@gmail.com

Forwarded

July
25/08/2021

Dr. R. V. Wakchare will be
mentor. Candidate has to pay
library fees. only

Disc. will be provided
if. Fine/heavy chemicals has
be procured by the candidate.

July
25/08/21
(Dr. Wakchare)



Deccan Education Society's

FERGUSSON COLLEGE

(AUTONOMOUS)

PUNE - 411 004, MAHARASHTRA, INDIA.



An Autonomous College (under Savitribai Phule Pune University, Pune)

(ID No. PU/PN/AS/002/1885) NAAC Accredited 'A' Grade; CGPA 3.62 on 4 point scale

College of Excellence (UGC) | Special Heritage Status by UGC | DST FIST Supported College | DBT - STAR College

FCP/310/2021-22

Date: 07-09-2021

To,

Dr. Om Mahodaya,
Principal,
Bajaj College of Science, Wardha

वजाज विज्ञान महाविद्यालय वर्धा

आवक क्र. 428

दिनांक 11/09/2021

Subject: Letter of Intent (LoI)

Dear Sir,

Warm greetings from Fergusson College (Autonomous) Pune!

Thank you for the collaborative activities in academics.

Hereby, I am sending you the hard copy of Letter of Intent (LoI) for your kind perusal.

Yours sincerely,

Dr. Ravindrasing Pardeshi,
Principal,
Fergusson College (Autonomous) Pune
Principal
Fergusson College (Autonomous)
Pune-411 004.





Deccan Education Society's
Fergusson College (Autonomous) Pune



Shiksha Mandal's
Bajaj College of Science, Wardha

Deccan Education Society's
Fergusson College (Autonomous), Pune
Internal Quality Assurance Cell and Career Facilitation Center

Parties to the Letter of Intent (LoI)

Party 1: Deccan Education Society's, Fergusson College (Autonomous), Pune

Address: Fergusson College Road, Deccan Gymkhana, Pune 411004,
Maharashtra hereinafter referred to as "College")

Contact Person: Dr. Ravindrasing G. Pardeshi, Principal Fergusson
College, Pune, contact Number: (020) 67656000; (020)67656603;
(020)67656199

Email id: principal@fergusson.edu; cfc@fergusson.edu

Website: <https://www.fergusson.edu>

Party 2: Shiksha Mandal's, Bajaj College of Science (Autonomous), Wardha

Address: Jamnalal Bajaj Marga, Civil Lines, Wardha-442001

Contact Person: Dr. Om Mahodaya, Principal, Bajaj College of Science,
Wardha

Contact No. : 07152-230515, 243851, 255070

Email: jbsciencewardha@yahoo.co.in

Website: jbsw.shikshamandal.org

1. Purpose

With intent to have more effective use of each of their resources and provide each of them with enhanced opportunities to grow and strengthen, the Parties shall collaborate for Skill based Training, Internship, Placement, Higher Education, Research and any other area in Academics.

3. Validity

The validity of the Letter of Intent shall be three years from the date of this letter or early termination of the same. Either Party can terminate this collaboration by giving prior 30 calendar days' notice, in writing, to the other Party.

4. Scope of Collaboration

(i) Strengthen Graduate Attributes

The budding graduates from the College could play a key role in technology upgradation, innovation and competitiveness of an industry. This collaboration between the Parties will benefit the student community.

(ii) Curriculum Design and Development

Party 2 will provide its valuable inputs to the College in framing the syllabi for a particular Academic Programme and also help in enhancing teaching-learning processes by providing training to the teachers and students and bring innovations in teaching-learning methods. The Party 2 will also help in customizing syllabi which will enhance industry readiness of students.

(iii) Industrial Training and Visit

Party 2 shall permit faculty and students of the College to visit its their industry set ups/ processing plants and other such facilities and involve them in its Industrial Training programs.

(iv) Internship and Placement of Students

Party 2 will assist the College in providing a platform for internship and placement of students.

(v) Research and Development

Both the Parties will, jointly, carry out research activities under the scope of the College, which can be defined mutually between the Parties.

(vi) Skill Development Program

Party 2 shall provide training on the emerging technologies in order to bridge the skill gap and make the students ready for the industry.

(v) Guest Lectures/ Industry Guidance

Party 2 shall provide necessary support to deliver guest lectures and guide students of the College on technology trends and industry requirements.

(vi) Faculty Development Program

Party 2 shall train the faculties of the College for imparting industrial exposure/training.

5. Both the Parties shall obtain the internal approvals/consent / permission/ licenses, as may be applicable and required, to offer the programs/activities on the terms specified herein.

6. There will be no financial commitment on part of the College to take up any program mentioned in this Letter of Intent.

7. Intellectual Property

Nothing contained in the Letter of Intent shall by express grant, implication,

estoppel or otherwise create in either Party any right, title, interest or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copyrights and designs) of the other Party.

Relationship between the Parties

1. The Parties shall be acting as independent contractors, and the relationship established under this Lol shall not be construed as partnership.
2. Neither, Party is authorized to use the other's name in any way, to make representations or create any obligations or liability expressed or implied on behalf of the other Party, without the prior written consent of the other Party.
3. Neither Party shall have, nor represent itself as having any authority under the terms of this Lol to make any agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit or to extend credit on behalf of the other Party.

Any difference of opinion or dispute that may arise at any time during the period of collaboration and thereafter, the Parties would endeavor to resolve such disputes amicably. However, in case the Parties are unable to resolve the same amicably, such difference(s)/dispute(s) shall be referred to and finally settled by arbitration in accordance with the provisions of Arbitration and Conciliation Act, 1996. The Parties shall mutually appoint 1 (one) arbitrator for the arbitration proceedings. The seat of arbitration shall be Pune. The language of the arbitral proceeding shall be English. The arbitral award shall be final and binding on the Parties.

ACCEPTED
FOR DECCAN EDUCATION SOCIETY'S
FERGUSON COLLEGE (AUTONOMOUS)
PUNE

ACCEPTED
FOR SHIKSHA MANDAL'S
BAJAJ COLLEGE OF SCIENCE
WARDHA

Signing Authorities of both the parties

Dr. Ravindrasing Pardeshi
Principal
Fergusson College (Autonomous)
Pune

Principal
Fergusson College (Autonomous)
Pune-411 004.



Dr. Om Mahodaya
Principal
Bajaj College of Science (Autonomous)
Wardha





This is to certify that
Dr. Prashant Ghansham Borkar
of

Jankidevi Bajaj College of Science, Wardha, Maharashtra

has undergone Innovation Ambassador training (Advanced Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.

Prof. Anil D. Sahasrabudhe
Chairman
AICTE

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell

Date of Issue: 30-07-2021

E-certificate No : 2434



This is to certify that

Dr. Bhavana Vishwas Mohite

of

Jankidevi Bajaj College of Science, Wardha, Maharashtra

**has undergone Innovation Ambassador training (Advanced Level)
conducted by MoE's Innovation Cell & AICTE during the period from
30th June - 30th July 2021 in online mode.**

Prof. Anil D. Sahasrabudhe
Chairman, AICTE

Dr. Abhay Jere
CIO, MoE's, Innovation Cell

Date of Issue: 30-07-2021

E-certificate No : 2590



This is to certify that

Dr. MAHEJABEEN HAQUE

of

Jankidevi Bajaj College of Science, Wardha, Maharashtra

**has undergone Innovation Ambassador training (Advanced Level)
conducted by MoE's Innovation Cell & AICTE during the period from
30th June - 30th July 2021 in online mode.**

Prof. Anil D. Sahasrabudhe
Chairman, AICTE

Dr. Abhay Jere
CIO, MoE's, Innovation Cell

Date of Issue: 30-07-2021

E-certificate No : 2769



This is to certify that

Abhimanyu Maheshwari

of

Jankidevi Bajaj College of Science, Wardha, Maharashtra

**has undergone Innovation Ambassador training (Advanced Level)
conducted by MoE's Innovation Cell & AICTE during the period from
30th June - 30th July 2021 in online mode.**

Prof. Anil D. Sahasrabudhe
Chairman, AICTE

Dr. Abhay Jere
CIO, MoE's, Innovation Cell

Date of Issue: 30-07-2021

E-certificate No : 2770



Ministry of
Education
Government of India



MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Institute)



This is to certify that

AKHIL VITTHALRAO NAKHATE

of

Jankidevi Bajaj College of Science, Wardha, Maharashtra

has undergone Innovation Ambassador (IA) training 'Advanced Level' (Total 15 Sessions of 30 contact hours) conducted in online mode by MoE's Innovation Cell & AICTE during the IIC calendar year 2021-22.

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell

Mr. Dipan Sahu
Assistant Innovation Director
MoE's Innovation Cell

Date of Issue: 04-08-2021

E-certificate No: IA/Advance/102844

IIC ID: IC201810385



CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 **ONLINE**



CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP) 2020 **ONLINE** HAS THE FOLLOWING ACTIVITIES

Eminent Scientist Lectures, Special Sessions, Project specific classes, Elocution video, Poster designing, Essay writing, Assignments / Project works given by mentor/coordinator & Summer Research Project Completion Report

CANDIDATE'S NAME: Dr. Bhavana Vishwas Mohite SL. NO.: CSIR/SRTP/2020/NEIST/5155

GRADE: S

HOST INSTITUTE: CSIR-NEIST

MENTOR'S NAME: Dr.Nidhi Kaushik

REMARKS

MENTOR



**CSIR-SUMMER RESEARCH TRAINING PROGRAM
(CSIR-SRTP) 2020 ONLINE**



CERTIFICATE

Name: Dr. Bhavana Vishwas Mohite **Sl. No.:** CSIR/SRTP/2020/NEIST/5155

has completed all the requirements of the CSIR-Summer Research Training Program (CSIR-SRTP) 2020 **online** during June to August, 2020 coordinated by CSIR-NEIST, Jorhat

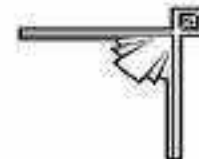
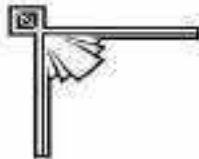
DR. G. NARAHARI SASTRY
DIRECTOR
CSIR-NORTH EAST INSTITUTE OF
SCIENCE AND TECHNOLOGY

PROF. ALOK DHAWAN
DIRECTOR
CSIR-INDIAN INSTITUTE OF
TOXICOLOGY RESEARCH

DR. SHEKHAR C. MANDE
DIRECTOR GENERAL, CSIR
SECRETARY, DSIR, GOVT. OF INDIA



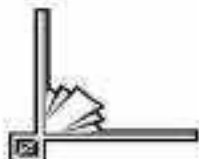
CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 **ONLINE**



JUNE TO AUGUST, 2020

SL. NO.: CSIR/SRTP/2020/NEIST/5895

NAME: Mohan Tukaram Kapse





CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 ONLINE



CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP) 2020 ONLINE HAS THE FOLLOWING ACTIVITIES

Eminent Scientist Lectures, Special Sessions, Project specific classes, Elocution video, Poster designing, Essay writing, Assignments / Project works given by mentor/coordinator & Summer Research Project Completion Report

CANDIDATE'S NAME: Mohan Tukaram Kapse SL. NO.: CSIR/SRTP/2020/NEIST/5895

GRADE: A

HOST INSTITUTE: CSIR-NEIST

MENTOR'S NAME: Dr. Nasir Ul Rasheed Rather

REMARKS

MENTOR



CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 **ONLINE**



CERTIFICATE

Name: Mohan Tukaram Kapse **Sl. No.:** CSIR/SRTP/2020/NEIST/5895

has completed all the requirements of the CSIR-Summer Research Training Program (CSIR-SRTP) 2020 **online** during June to August, 2020 coordinated by CSIR-NEIST, Jorhat

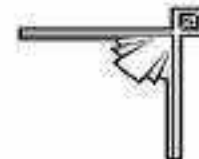
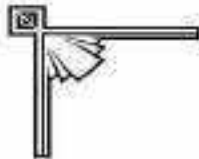
DR. G. NARAHARI SASTRY
DIRECTOR
CSIR-NORTH EAST INSTITUTE OF
SCIENCE AND TECHNOLOGY

PROF. ALOK DHAWAN
DIRECTOR
CSIR-INDIAN INSTITUTE OF
TOXICOLOGY RESEARCH

DR. SHEKHAR C. MANDE
DIRECTOR GENERAL, CSIR
SECRETARY, DSIR, GOVT. OF INDIA



CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 **ONLINE**



JUNE TO AUGUST, 2020

SL. NO.: CSIR/SRTP/2020/NEIST/4031

NAME: NIKITA RAJESHRAO KHARE





CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 **ONLINE**



CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP) 2020 **ONLINE** HAS THE FOLLOWING ACTIVITIES

Eminent Scientist Lectures, Special Sessions, Project specific classes, Elocution video, Poster designing, Essay writing, Assignments / Project works given by mentor/coordinator & Summer Research Project Completion Report

CANDIDATE'S NAME: NIKITA RAJESHRAO KHARE SL. NO.: CSIR/SRTP/2020/NEIST/4031

GRADE: B

HOST INSTITUTE: CSIR-NEIST

MENTOR'S NAME: Dr. D. Sumitha

REMARKS

MENTOR



CSIR-SUMMER RESEARCH TRAINING PROGRAM (CSIR-SRTP)2020 **ONLINE**



CERTIFICATE

Name: NIKITA RAJESHRAO KHARE **Sl. No.:** CSIR/SRTP/2020/NEIST/4031

has completed all the requirements of the CSIR-Summer Research Training Program (CSIR-SRTP) 2020 **online** during June to August, 2020 coordinated by CSIR-NEIST, Jorhat

DR. G. NARAHARI SASTRY
DIRECTOR
CSIR-NORTH EAST INSTITUTE OF
SCIENCE AND TECHNOLOGY

PROF. ALOK DHAWAN
DIRECTOR
CSIR-INDIAN INSTITUTE OF
TOXICOLOGY RESEARCH

DR. SHEKHAR C. MANDE
DIRECTOR GENERAL, CSIR
SECRETARY, DSIR, GOVT. OF INDIA



Pradip Tekade <pradiptekade@gmail.com>

Fwd: Collaborative work

3 messages

Dr. Dhiraj Naik <naikdhiraj@gmail.com>

Thu, Jun 25, 2020 at 9:00 PM

To: Pradip Tekade <pradiptekade@gmail.com>, janki bajaj <jbsciencewardha@yahoo.co.in>

Sir,

Am forwarding an email response from Dr. Supprasanna, NABTD Division, BARC, Mumbai about joint collaboration between our college and RBCA. This is just at the initial stage. It might help for NAAC.

regards,

Dhiraj

----- Forwarded message -----

From: <prasanna@barc.gov.in>

Date: Thu, Jun 25, 2020 at 6:02 PM

Subject: Collaborative work

To: <babasontakke@rediffmail.com>

Cc: <naikdhiraj@gmail.com>, Dr. Ashish Srivastava <ashish@barc.gov.in>, Ashish srivastava <ashishbarc@gmail.com>, penna888 <penna888@yahoo.com>

The Principal,

Ramakrishna Bajaj College of Agriculture (RBCA),

Pipri, Wardha-442001

Maharashtra

Subject: Letter of collaboration

Dear Dr. Sontakke,

Our laboratory in NABTD, BARC is engaged in studying the effects of biostimulants such as thiourea and chitosan in crop plants. We are keen to study the effects on field grown cotton and pigeon pea grown under different cropping patterns. Since these are the major kharif crops of Vidarbha region, we would be happy to collaborate with Bajaj College of Science and Ramakrishna Bajaj College of Agriculture, Wardha, in undertaking these studies. BARC will offer technical support and advice on this research work. This joint research work will complement our priority research theme "Thiourea and chitosan-based technology for enhancing plant growth and stress tolerance." The outcome of this collaboration can be shared between both the institutions, and should help towards developing further collaborative research. From BARC side, Dr Ashish Srivastava will coordinate all the matters, and correspondence can be made with him.

With regards,

Dr Suprasanna

Dr. P. SUPRASANNA**Head,** Nuclear Agriculture and Biotechnology Division, &

Professor, Homi Bhabha National Institute,

Bhabha Atomic Research Centre (BARC),
Trombay, Mumbai 400 085, INDIA;
Tel. 0091 22 25595423;
Email: prasanna@barc.gov.in;
penna888@yahoo.com, penna.suprasanna@gmail.com

--

Dr. Dhiraj Naik
Assistant Professor
Department of Botany
Bajaj College of Science
(Formerly known as Jankidevi Bajaj College of Science)
Civil Lines
Wardha-442001, Maharashtra
India

Pradip Tekade <pradiptekade@gmail.com>
To: sanjiv zade <sanjivszade@gmail.com>

Fri, Jun 26, 2020 at 6:55 AM

[Quoted text hidden]

Pradip Tekade <pradiptekade@gmail.com>
To: "pgchem.borkar" <pgchem.borkar@gmail.com>

Tue, Aug 18, 2020 at 12:51 PM

----- Forwarded message -----

From: **Dr. Dhiraj Naik** <naikdhiraj@gmail.com>
Date: Thu, Jun 25, 2020, 9:00 PM
Subject: Fwd: Collaborative work
To: Pradip Tekade <pradiptekade@gmail.com>, janki bajaj <jbsciencewardha@yahoo.co.in>

[Quoted text hidden]



'MAHA PENCH-TIGERS IN THE HEART OF INDIA'



Office of the Chief Conservator of Forest & Field Director, Pench Tiger Reserve, Nagpur

मुख्य वनसंरक्षक व क्षेत्रसंचालक, पेंच व्याघ्र प्रकल्प, नागपूर यांचे कार्यालय

3rd Floor, Sanchar Laxmi Building (BSNL), Kasturchand Park, Nagpur-480009

Ph. No. / दूरध्वनी क्र. ०७९२-२५६०७२७ / २५६०७३८

E-mail / ई-मेल: ccfdpench2@mahaforest.gov.in

Website / वेबसाईट : www.mahapenchtiger.com

Safari Booking / सफारी बुकिंग: www.mahaecotourism.gov.in

Desk-6/Steno/ 3392 /2019-20

Date-27 /02/2020

To,

The Secretary
Department of Biotechnology
6th-8th Floor, Block 2, CGO complex
Lodhi Road, New Delhi-110003

Subject: Letter of collaboration

Sir/Madam,

I am happy to offer you my support for the proposal entitled as "**Investigation on genetic diversity, local scale genetic structure and ex-situ conservation of *Anogeissus sericea* in disturbed forest patches of Gujarat, Rajasthan and Vidarbha, India**".

This proposed research is a collaborative effort between Bajaj College of Science, Wardha and Office of the Chief Conservator of Forests and Field Director, Nagpur. My office will support the research staff of this project during field collection of seeds and leaf samples of *A. sericea* stands after following the due procedure.

Two collection sites are outside Maharashtra state. Under such circumstance, my office will communicate to Gujarat/Rajasthan Forest Departments and the State Biodiversity Boards (if needed) and facilitate the team of PI to collect the plant samples after following the due procedure. The collections will be done without any serious damage to the parent trees in all designated locations of the proposal. This proposed research will help to propagate the threatened forest tree species which will support the goals of Forest Department of Maharashtra as it is extremely sparsely distributed in Maharashtra state. The nursery plantlets which will be developed by Bajaj College of Science will enhance the possibility of reintroduction of threatened species into local habitat and to other forest patches.

I am looking forward to collaborating with Bajaj College of Science, Wardha on this and other forest tree projects.

Yours Sincerely,

(Dr. Ravikiran Govekar)
Chief Conservator of Forest & Field Director
Pench Tiger Reserve, Nagpur.

NABIRA MAHAVIDYALAYA, KATOL

Distt. Nagpur (M.S.) Pin - 441 302

Graduation & Post Graduation in Arts, Commerce, Science & Management

Phone : 07112 - 222004 / 222164 Fax : 07112-222004

Email : nmv.college@rediffmail.com Website : www.nabiramahavidyalayakatol.com



Ref. No. :

Date : 24-12-2019

To,

The Principal,
Bajaj college Science,
Wardha,
Wardha-440010

Dear Sir,

M.Sc.Sem.IV (Chemistry) students have to carry out the Project work in their PG course. They may carry the work at any of the national /regional/private research institute/organization.

We are in consideration to consign three PG students to your reputed institution for their project work under **Dr.Pradip Tekade** (Associate professor, J.B.Science College, Wardha) supervision from 26th Dec. to 26th Jan. 2020. We assure you that they will show good manners. It would be a huge favor for us and we shall be thankful to you. Name of students are as follows.

1) Miss. Shubhangi S.Pande

2) Miss. Ruchita S. Raut

3) Miss. Sonal R. Rewatkar

Kindly permit the students for the project work.


Co-ordinator

P.G. Department of Chemistry
Nabira Mahavidyalaya, Katol



Principal
Nabira Mahavidyalaya
Katol

ShikshaMandal's

Bajaj College of Science, Wardha

Autonomous College affiliated to RTMNU, Nagpur

(A Linguistic Minority College)

NAAC Reaccredited 'A' Institution (CGPA 3.21)

College with Potential for Excellence, UGC, New Delhi

Office/Fax : (07152) 230515
Admn. Off. : (07152) 241696
Library : (07152) 255070
E-mail : jbsciencewardha@yahoo.co.in
website : jbsw.shikshamandal.org



Jamnadal Bajaj Marg
Civil Line
Wardha - 442 001 (Maharashtra)
Uni. College No. : 802
Jr. College No. : 07-01-003

Certificate

This is to certify that the work presented under Project entitled "Synthesis of hydrotalcite (LDH) by conventional and mechanochemical method; its application in base catalysed reactions like aldol condensation." is the own work of **Miss Shubhangi Pande** conducted in the P.G. Department of Chemistry, Bajaj college of Science, Wardha.

Project Supervisor
Dr. Pradip V. Tekade

Head/Incharge
Department of Chemistry

Project Co-Supervisor
Dr. Akhil V. Nakhate

Dr. Om A. Mahodaya
Principal
Bajaj College of Science, Wardha

ShikshaMandal's

Bajaj College of Science, Wardha

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Jamnallal Bajaj Marg
Civil Line
Wardha - 442 001 (Maharashtra)
Uni. College No. : 802
Jr. College No. : 07-01-003

Certificate

This is to certify that the work presented under Project entitled "**Activated CaAl-LDH, Solid Base Catalysts Prepared And Showed Its Application In The Aldol Condensation Reaction Between Benzaldehyde And Acetone**" is the own work of Miss Ruchita Raut conducted in the P.G. Department of Chemistry, Bajaj college of Science, Wardha.

Project Supervisor
Dr. Pradip V. Tekade

Head/Incharge
Department of Chemistry

Project Co-Supervisor
Dr. Akhil V. Nakhate

Dr. Om A. Mahodaya
Principal
Bajaj College of Science, Wardha

ShikshaMandal's

Bajaj College of Science, Wardha

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Jamnallal Bajaj Marg
Civil Line
Wardha - 442 001 (Maharashtra)
Uni. College No. : 802
Jr. College No. : 07-01-003

Certificate

This is to certify that the work presented under Project entitled "Synthesis and Characterization of Hydrotalcite and their application as a Base Catalyst for Aldol Condensation Reaction." is the own work of **Miss Sonal Rewatkar** conducted in the U.G. Department of Chemistry, Bajaj college of Science, Wardha.

Project Supervisor
Dr. Pradip V. Tekade

Project Co-Supervisor
Dr. Akhil V. Nakhate

Head/Incharge
Department of Chemistry

Dr. Om A. Mahodaya
Principal
Bajaj College of Science, Wardha

Shiksha Mandal's

Bajaj College of Science, Wardha

Autonomous college affiliated to RTMNU, Nagpur

(A Linguistic Minority College)

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with potential for Excellence, UGC, New Delhi

PROJECT REPORT ON

"STUDY OF MODIFIED NATURAL THICKENER VERSUS SYNTHETIC THICKENER IN TEXTILE PRINTING"

In the partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE

In CHEMISTRY

(FACULTY OF SCIENCE AND TECHNOLOGY)

Submitted by

Miss Priya B. Kadu

M. Sc. Chemistry (Sem-IV)

Under the Guidance of

Internal Supervisor

Dr Pradip V. Tekade

Associate Professor

(M.Sc., Ph. D., NET, SET, GATE)

External Supervisor

Dr. Manoranjan Patnaik

Dy. Director (Chemical)

Industries Division), MGIRI, Wardha



P.G. DEPARTMENT OF CHEMISTRY,

BAJAJ COLLEGE OF SCIENCE,

WARDHA – 442001 (M.S.) INDIA

2019-2020



Bajaj College of Science, Wardha

Autonomous college affiliated to RTMNU, Nagpur
(A Linguistic Minority College)

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with potential for Excellence, UGC, New Delhi

Star College Scheme by DBT Govt. of India, New Delhi

Office/Fax : (07152) 230515

Admn. Off : (07152) 241696

Library : (07152) 255070

Email : jbsciencewardha@yahoo.co.in

Website : jbsw.shikshamandal.org

Jamnalal Bajaj Marg

Civil Lines

Wardha-442001 (Maharashtra)

Uni. College No. 802


Jr. College No. 07-01-003


Ref No. J.B.C./ /20 - 20


Date : / / 20

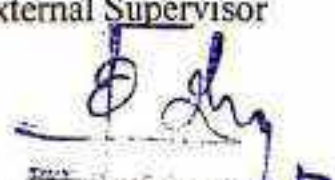
Certificate

This is to certify that the work presented under project entitled
"Study of natural modified thickener versus synthetic thickener for
textile printing" is the own work of Ms Priya B. Kadu conducted in the P.G.
Department of Chemistry, Bajaj Science College, Wardha and Chemical
Industries Division, MGIRI, Wardha.


Dr Pradip V. Dekade
Internal supervisor / Head


Dr. Nita Mohaansi
~~Head~~ Co-ordinator
Department of Chemistry


Dr M. Patnaik
External Supervisor


Dr Om A. Mahodaya
Principal
Bajaj Science College,
Wardha

Shiksha Mandal's

Bajaj College of Science, Wardha

Autonomous college affiliated to RTMNU, Nagpur

(A Linguistic Minority College)

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with potential for Excellence, UGC, New Delhi

PROJECT REPORT ON

"Synthesis And Characterisation Of Thickener For Textile Printing"

In the partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE

In CHEMISTRY

(FACULTY OF SCIENCE AND TECHNOLOGY)

Submitted by

Ms. Mamta R. Chandak

M. Sc. Chemistry (Sem-IV)

Under the Guidance of

Internal Supervisor

Dr Pradip V. Tekade

Associate Professor

(M.Sc., Ph. D., NET, SET, GATE)

External Supervisor

Dr. Manoranjan Patnaik

Dy. Director (Chemical)

Industries Division), MGRI, Wardha



P.G. DEPARTMENT OF CHEMISTRY,

BAJAJ COLLEGE OF SCIENCE,

WARDHA – 442001 (M.S.) INDIA

2019-2020



Bajaj College of Science, Wardha

Autonomous college affiliated to RTMNU, Nagpur

(A Linguistic Minority College)

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with potential for Excellence, UGC, New Delhi

Star College Scheme by DBT Govt. of India, New Delhi

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Admn. Off : (07152) 241696
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Email : jbsciencewardha@yahoo.co.in
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Jamnalal Bajaj Marg
Civil Lines
Wardha-442001 (Maharashtra)
Uni. College No. 802
Jr. College No. 07-01-003


Ref No. J.B.C./ /20 - 20


Date : / / 20

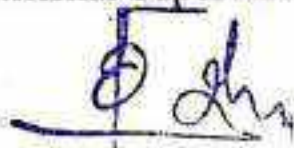
Certificate

This is to certify that the work presented under project entitled “**Synthesis and characterisation of thickener for textile printing**” is the own work of **Ms Mamta R. Chandak** conducted in the P.G. Department of Chemistry, Bajaj Science College, Wardha and Chemical Industries Division, MGIRI, Wardha.


Dr. Pradip V. Tekade
Internal supervisor


Dr. Nita P. Mohabansi
Head
Department of Chemistry


Dr. M. Patnaik
External Supervisor


Dr. Om A. Mahodaya
Principal
Bajaj Science College,
Wardha

Bajaj College of Science, Wardha

(Formerly known as Jankidevi Bajaj College of Science, Wardha)

Autonomous College

A Linguistic Minority College

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with Potential for Excellence, UGC, New Delhi

Office/Fax : (07152) 230515

Admn. Off. : (07152) 241696

Library : (07152) 255070

E-mail : jbsciencewardha@yahoo.co.in

website : jbsw.shikshamandal.org



Jamnalal Bajaj Marg,

Civil Line

Wardha - 442 001 (Maharashtra)

Uni. College No. : 652

Jr. College No. : 07-01-003

Ref No. J.B.C./ /2019-2020

Date : 11 / 10 / 2019

To

Dr R K Gupta,

Director, MGIRI, Wardha

Subject: Proposal for functional MoU between Bajaj College of Science and MGIRI, Wardha.

Dear Sir,

We are proud to have a committed National Institute under the Ministry of Micro Small & Medium Enterprises, Govt. of India i.e 'MGIRI' in Wardha, which is serving in rural entrepreneurs and enterprises by developing new technologies keeping Gandhian vision to support, upgrade and accelerate the process of Rural Industrialization in the country.

Our parent institution 'Shiksha Mandal, Wardha', the pioneer educational institution of Central India was established in 1914 by late Shri. Jamanlal Bajaj, Shri Shrikrishnadas Jajoo and others with the sole aim of providing quality education. It has also been awarded with the First Ideal Institution Award by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in August 2015. Bajaj College of Science (BCS), Wardha was founded in 1962 by Shiksha Mandal, Wardha, which imparts science education to more than 1,500 students from Junior College to Ph.D. At present BCS is an **Autonomous College** with Linguistic Minority status.

Most of our faculty have Ph.D. and NET/SET qualification. They are currently working on Major and Minor Research Projects. Projects are also regular part of UG and PG syllabus. To enhance our research activity, our staff and students need exposure, guidance as well as training from reputed national institutions. A step to move ahead in this direction could be achieved by having a functional memorandum of understanding (MoU) with your esteemed institution, MGIRI Wardha, which would be of interest to both the institutions.

So, I request you to consider our proposal to have a functional MoU between Bajaj College of Science, Wardha and MGIRI, Wardha.

Your positive response in this direction would be highly appreciated and awaited.

Thanking you in anticipation.

Regards

(Dr. Om Mahodaya)

Principal



महात्मा गांधी ग्रामीण औद्योगीकरण संस्थान

Mahatma Gandhi Institute for Rural Industrialization

(सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय संस्थान)

(A National Institute under the Ministry of Micro, Small and Medium Enterprises, Govt. Of India)

महानवाडी, वर्धा - 442001, महाराष्ट्र, भारत

Maganwadl, Wardha - 442001, Maharashtra, India

दूरभाष क्र. Ph. 07152-253512, फैक्स क्र. Fax. 07152-240328

ई मेल E-mail director mgiri@gmail.com वेबसाइट Website www.mgiri.org

No. MGIRI/RCI/2018-19/125

दिनांक/Date: 19/07/2018

To

The Principal
J B Science College, Wardha.

Subject: Use of Abbe Refractometer for analysis of honey sample.

Sir,

This is inform you that we need to test a honey sample with Abbes' refractometer. This is available in your institute as per the information given by Dr. Pradip Tekade, Dept. of Chemistry.

It is requested to permit us to use the refractometer for said purpose.

With regards.

Yours sincerely

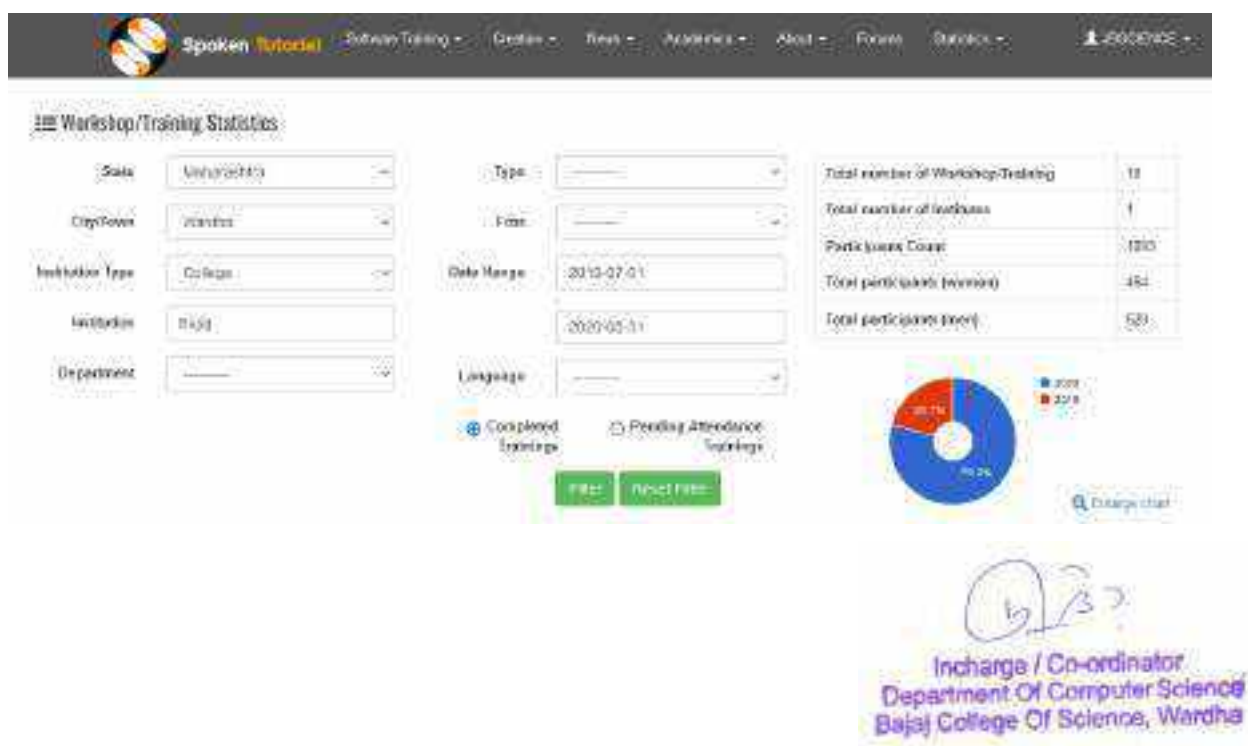

(Dr. M Patnaik)
Deputy Director
RCI Division

Shiksha Mandal's
Bajaj College of Science, Wardha
(An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)

Report of Spoken Tutorial Program of IIT, Bombay
(Session 2019-20)

Shiksha Mandal's Bajaj College of Science, Wardha is always keen to provide quality education to the students and also to enrich them with additional skills. For this, institute has started providing the learning facilities, in the form of Spoken Tutorial of IIT Mumbai, to the students to acquire software knowledge which is available online. Also, to make it more productive, we have added this activity in the college timetable and received satisfactory results. This activity is mandatory for all second year undergraduate students.

In the academic session 2019-20, total 1093 students/participants were enrolled in 18 training programs including two Faculty Development Programms. In the difficult time of COVID-19 pandemic, institute was instrumental in keeping learning process continued not only to the students of the college but to the students and faculty from other areas including one international participant through faculty development program organized by Departments of Electronics and Chemistry.



Dr. P. A. Saudagar
Co-ordinator, STIIT



भारतीय प्रौद्योगिकी संस्थान मुंबई

पत्राई. मुंबई-400 076, भारत

Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

दूरभाष/Phone: : (+91-22) 2572 2545

फैक्स/Fax: : (+91-22) 2572 3480

वेबसाइट/Website: : www.iitb.ac.in



Letter of Association

Date: 31st August 2018

To,
The Principal,
JANKIDEVI BAJAJ COLLEGE OF SCIENCE, WARDHA
Maharashtra

We are happy to announce the ASSOCIATION of Knowledge Partner Spoken Tutorial Program, IIT Bombay with JANKIDEVI BAJAJ COLLEGE OF SCIENCE WARDHA.

The Program is a part of the National Mission on Education through ICT, MHRD, Govt. of India, to spread IT Literacy all over India. We are promoting the learning and usage of Free & Open Source Software (FOSS), through an Audio-Video teaching tool, viz, 'Spoken Tutorial'.

We support and motivate colleges to train students on Basic Computer Skills, Software and IT. The course and the training is offered for Rs. 25,000 per year to all the Colleges.

You are making an outstanding contribution of using ICT based teaching and learning methodology for students of your College.

Yours Sincerely,

Shyama Iyer

Shyama Iyer
National Coordinator, Training
Spoken Tutorial, IIT Bombay





राष्ट्रीय प्रौद्योगिकी संस्थान
NATIONAL INSTITUTE OF TECHNOLOGY
राउरकेला, ROURKELA 769008, ओडिशा, ODISHA



RIGHT TO
INFORMATION

July 18, 2019

Supervisor's Certificate

This is to certify that the work entitled in the thesis titled "*Role of Epigenetic regulators and Hedgehog signaling in Cuveolins gene expression*" submitted by Ayushi D. Chaudhary is a record of original research carried out by her under my supervision and guidance in partial fulfilment of the requirements of summer internship program. Neither this thesis nor any part of it has been submitted earlier for any degree or diploma to any institute or university in India or abroad.


18/7/19

Prof. Samir Kumar Patra

Supervisor

Phone : (0661) 2476773, फेक्स Fax : (0661) 2462022, वेबसाइट Website : www.nitrkl.ac.in

मा.सं.वि. मंत्रालय, भारत सरकार के अधिन एक राष्ट्रीय महत्त्व का संस्थान
An Institute of national importance under ministry of HRD, Govt. of India

FOR SUMMER INTERNSHIP PROGRAMME 2019 at NIT ROURKELA

Date: 03.05.2019

To
The Chairman
Summer Internship Programme 2019
NIT Rourkela, Odisha
Rourkela - 769008

Recommendation

I recommend Ayushi Devendra Chaudhary
of M.Sc. 1st year Microbiology

Department

for summer internship with fellowship at NIT Rourkela to be held
during 20.05.2019 to 20.07.2019. He/she will join the programme if
selected**.

Delundare

Dr. Ms. S. S. Khandare
(Signature of Head, Dept. of Microbiology,
J.B. College of Science, Wardha)

Name of the Head of the Dept. Dr. Ms. Suhas S. Khandare

Name of the Institution J.B. college of science, wardha.

Office Seal:



** If selected, the student should intimate his/her confirmation of joining within stipulated time.
After confirming if not joined, the same information will be stored with NIT Rourkela for future
reference. By signing this form you also certify that there is no academic activity during this period at
your college/institute that may clash with this internship dates.

Note: Please take a print out of this form, fill up properly, get signed and stamped by the HOD,
scan it and upload it.

Report submitted to
National institute of technology, Rourkela



Submitted by
Ayushi D. Chaudhary
Msc Iyr, Department of microbiology
J.B. Sciences college, wardha

Under the guidance of
Prof. SAMIR KUMAR PATRA

Department of life sciences
National institute of technology, Rourkela
Orissa 2019-2020



राष्ट्रीय प्रौद्योगिकी संस्थान

NATIONAL INSTITUTE OF TECHNOLOGY

राउरकेला, ROURKELA-769008, ओडिशा, ODISHA



RIGHT TO
INFORMATION

Dr. Vidya Devi Negi, Ph.D., Assistant Professor,
Dept. of Life Science, NIT Rourkela, Odisha. email deviv@nitrkl.ac.in

CERTIFICATE

This is to certify that the work in the thesis title "**Putative SH3 domain-containing protein's (YgiM) role in *Salmonella* infection**" submitted by Aditya Vilas Bhaskarwar is a record of original research carried out by him under my supervision and guidance in partial fulfillment of requirements of a summer internship program. Neither this thesis nor any part of it has been submitted earlier for any degree or diploma of any institute or university in India or abroad.

Vidya Devi Negi

19.07.2019

Dr. Vidya Devi Negi, Ph.D.
Assistant Professor
Department of Life Science
National Institute of Technology
Rourkela-769008, Odisha, India

फोन Phone : (0661) 2476773, फेक्स Fax : (0661) 2462022, वेबसाइट Website : www.nitrkl.ac.in

मा.सं.वि. मंत्रालय, भारत सरकार के अधिन एक राष्ट्रीय महत्व का संस्थान
An institute of national importance under ministry of HRD, Govt. of India

FIRST SEMESTER INTERNSHIP PROGRAMME 2019 at NII Rourkela

Date: 03.05.2019

To
The Chairman
Summer Internship Programme 2019
NII Rourkela, Odisha
Rourkela - 769008

Recommendation

Recommend Aditya Vilas Bhaskarwar

of M.Sc. 1st year Microbiology

(Department)

for summer internship with fellowship at NII Rourkela to be held
during 20.05.2019 to 20.07.2019. He/she will be join the programme if
selected^{**}.

S. S. Khandare

Dr. Ms. S. S. Khandare
(Signature Dept. of Microbiology)
J.B. College of Science, Wardha

Name of the Head of the Dept. Dr. Ms. Suhani S. Khandare

Name of the Institution J.B. College of Science, Wardha

Office Seal:



^{**} It is noted that the candidate should be made to be a student of a recognized university, who has
passed the examination and secured the first position in the examination. The candidate should be
a graduate of a recognized university and should be a resident of India. The candidate should be a
native of India and should be a resident of India.

Note: Please take a printout of this form, fill up properly, get signed and stamped by the HOD,
wardha and upload it.

Report submitted to

National institute of technology, Rourkela



Submitted by

Aditya V. Bhaskarwar

Msc 1yr, Department of microbiology

J.B. Sciences college, wardha

Under the guidance of

Prof. Vidya Devi Negi

Department of life sciences

National institute of technology, Rourkela

Orissa 2019-2020



4

Savitribai Phule Pune University
(Formerly University of Pune)
Department of Instrumentation Science

Internal Epubx : 1416
Phone: +91-20-25695195
Fax : +91-20-25695301

Ganeshkhind, Pune 411007.
E-mail : hod_disc@unipune.ac.in
URL : www.unipune.ac.in

Date: 13 June, 2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. **Aniket Chandrashekhar Nagrale** has done his internship in nanoparticle synthesis at Savitribai Phule Pune University, Pune from 6th May 2019 to 17th June 2019.

He has worked on a project titled 'Synthesis and Characterization of ZnSe nanoparticles by hydrothermal method'. This project was aimed to study different applications of nanoparticles.

During the internship he has learned handling various laboratory equipments and analyse the result. He has demonstrated good design skills with a self-motivated attitude to learn new things. His performance exceeded expectations and was able to complete the project successfully on time.

We wish him all the best for his future endeavours.

Dr. Shweta D Jagtap

April 12, 2019

To,

Dr. Vasant Chabukswar
Newrosjee Wadia College,
19, Bund Garden Rd.
Sangamvadi, Pune
Maharashtra 411001

Subject: Application for the Inspire Internship Programme.

Respected Sir,

I am Naincy Shravan Kumar Jalan, second year B.Sc. student of Bajaj College of Science, Wardha writing this application to request you to mentor me for inspire internship programme. Sir, I would like to apply for a summer internship with inspire under your mentorship. While I have the pure science as background, my emphasis is on chemistry and innovations in it. It would be the golden opportunity for me to learn the current trends in the subject under your guidance which will be helpful for advancing my career.

I am keen to learn something in the field of nanochemistry which is changing this world by means of its smart applications. Sir, during my graduation, I did some project in our college under the supervision of faculty in the chemistry department. The work was focused on the Organic Dye Synthesis from the herbs available in our region and also I tried my hands on making the natural soaps.

Sir, I have enclosed my resume highlighting my education and extra curriculum and a copy of inspire fellowship award for your reference. My exams will be over by the end of first week of May 2019 so that I can join you from the second week of May at your place. I would be grateful to you for accepting my request.

Sincerely,

Naincy Jalan

Naincy Jalan
12/04/19

Permit
[Signature]
12/4/19

2. Original Mark-sheet copy will be accepted. Internet copy of Mark-sheet will not be accepted.

3. Submission of Performance Reports and Mark-sheets:

- a) Except for very 1st year, scholarship for any academic year shall be paid to the scholar only after the evaluation/approval of (i) Performance report and (ii) Mark Sheet (semestral basis or two semesters in one academic year) of B.Sc./B.S./Int. M.Sc./Int. M.B. or M.Sc. course for previous academic year.
- b) The Scholar shall submit above (a) & (ii) referred documents altogether. Scholarship will not be processed in case any one of the abovementioned documents is not submitted.
- c) Scholars are advised to submit their yearly Mark-sheets and performance related documents on-time, preferably within 2 months of announcement of yearly results to facilitate the payment of scholarship by DST-INSPIRE. However, keeping in view the diverse time schedules of the examinations in Universities across the country, scholars are permitted a maximum period of twelve (12) months to submit their Performance Report and Mark-sheets for a given completed academic year ending June every year. As an example, 2014 batch enrolled student is expected to submit the First Year Performance Report and First Year Mark Sheet before 30th June 2015. This analogy can be followed by other batches for the release of the INSPIRE Scholarship.
- d) If a scholar does not submit his/her annual Performance Reports and Mark-sheets for two consecutive academic years, the offer of scholarship shall be withdrawn.
- e) Provisional Mark-sheets will not be considered.

4. Research Projects Mentorship for Scholars: The main objective of INSPIRE/SHE program is to encourage young students to pursue Research as a career. In order to inculcate scientific values and develop scientific temper, the scholars are required to enrol in a Research Project every year. To avail the mentorship grant, the scholars are expected to do project work under a Research Supervisor (Mentor) during summer vacation period, in any recognized Universities or Institutes or Research Laboratories/ Centres of their choice outside their parent institutions either in India or abroad. The scholar may avail institutional arrangement or arrange both Mentoring Institution and Mentor to carry out this. Consumables required to carry out project work, if recommended by the Mentor, will be paid from the Mentorship Grant, either to the Institute where project work is pursued or to the Scholar directly.

(i) For students doing a project in India: The expenses related to travel, accommodation and consumable expenses are reimbursed to the student within the mentorship grant. Please note that no food expenses are covered by this grant, as the students receive scholarship during this period. The DST-INSPIRE shall make provision of Rs. 20,000/- per annum as Mentorship Grant to each INSPIRE Scholar to carry summer vacation research work every year. The minimum tenure of the project must be six to eight weeks. The duration of the project must be clearly mentioned in the project report. The Mentorship Grant shall be reimbursed either to the mentoring institutions as a bench fee to accommodate the INSPIRE scholar or directly to the Scholar to carry out research work. After completion of the project work at the Institute or University or Research Laboratory under a Research Supervisor (Mentor), the candidate should submit the following documents to the DST for reimbursement of the Mentorship Grant.

(a) A letter attested by the Research Supervisor and Head of Institution where the scholar is enrolled for the project. Duration of the project i.e. date of commencement and date of completion must be mentioned in the certificate.

(b) A report outlining the objectives and results of his/her project.

The scholars are requested to specify clearly to whom the mentorship grant must be reimbursed (Mentoring Institution or scholar).

(ii) For students doing a project Abroad: Students at 4th or 5th year of the Scholarship entry are allowed to carry out research project in any Institute/ University/ Laboratory abroad by utilizing the Mentorship Grant available for five years on pro-rata basis. If the sponsoring Institute pays any stipend or travel grant, only the difference between the support received from all sources put together and actual expenditure will be reimbursed from the Mentorship Grant. The DST-INSPIRE shall make provision of Rs. 20,000/- per annum or (Rs. 1,00,000/- in 5 years) as Mentorship Grant to INSPIRE Scholar to carry summer vacation research work abroad. The Mentorship Grant shall be reimbursed either to the mentoring institutions as a bench fee to accommodate the INSPIRE scholar or directly to the Scholar to carry out research work. In case a Scholar does not utilize this grant in any year during the tenure of INSPIRE Scholarship, it can be carried forward until the completion of the tenure of INSPIRE Scholarship. Student is eligible only to receive the expenditure, which he has incurred for basic research work. There is no provision for reimbursement of the unutilized grant to the student. After completion of the project work, at the Institute or University or Research Laboratory under a Research Supervisor (Mentor), the candidate should submit the following documents to the DST for reimbursement of the Mentorship Grant.

(a) A letter attested by the Research Supervisor and Head of Institution where the scholar is enrolled for the project. Duration of the project i.e. date of commencement and date of completion must be mentioned in the certificate.

(b) A report outlining the objectives and results of his/her project.

(c) Travel Bill (Air Fare Tickets, Boarding Pass).



INSPIRE Scholarship – Post-Offer Implementation Guidelines for Scholars

INSPIRE Scholarship, offered to pursue undergraduate (UG) studies and continued up to post-graduate (PG) studies, is based on Class XII standard examination results (top 1%) of respective Boards or within eligible rank in chosen few competitive examinations such as JEE (main), JEE (advanced), NEET (AI/PM) and securing admission in science stream (in any of science course or its combination out of 16 identified subjects) at any recognized colleges or universities or academic institutions in the country.

INSPIRE Scholarship shall be regulated with the following guidelines:

1. **Mode of Intimation to Scholar:** All selected candidates shall receive a Provisional Offer letter on their web portal informing that they are selected for the scholarship. The selected students are required to log into the online portal to download the offer letter. The list of selected and rejected students will also be displayed on Home page of INSPIRE website. The selected candidates have to upload the required documents on their web-portal in prescribed time period (i.e. time period mentioned in offer letter) for further consideration.

2. **Confirmation of Scholarship Offer:** All offers made initially shall be 'Provisional'. This shall be confirmed based on the subjects/courses pursued in the B.Sc./B.S./Int. M.Sc./Int. M.S. course and upon submission of the first year B.Sc./B.S./Int. M.Sc./Int. M.S. examination Mark-sheets by the Scholar. In case of otherwise, the Offer stands invalid and no communication would be made separately in this regard.

3. **Re-admission or Change of College/ University:** Any change or re-admission to another College/ University/ Academic Institute within the same academic year is acceptable, provided the scholar pursues subjects out of identified 16 nos. subject(s). The Offer would stand invalid in case this change or re-admission occurs in the next academic year and therein, or subject(s) pursued is/ are beyond the 16 identified subjects. In such a case, there will be no scope for restoration of the offer and no communication would be made separately to Scholar.

4. **Gap Year between B.Sc. and M.Sc.:** After completion of three years of B.Sc. program, students may join M.Sc. course (Natural and Basic Sciences only as per list) anywhere in the country. The scholarship will be discontinued in case of one year break or Gap between B.Sc. and M.Sc. course.

5. **Opening & Submission of Bank Account:** Scholars are required to open a regular Bank Account with India at any branch of State Bank of India, exclusively on Scholar's name. Opening of Joint Ac may be allowed only in case of Minor Scholars as under Clause (i)(ii). The scholars must submit the Accounts details in the specified format (through the online portal only) along with the self-attested photocopy of front page of Bank Passbook and Aadhaar or Aadhaar Enrolment slip, within 120 days of this Offer.

A maximum period of 120 days would be allowed to a scholar for the completion of Bank Account related formalities and the offer of the scholarship would stand cancelled in case the scholar fails to submit the account details within the time period. After this date, the names of such scholars shall be notified at the website: www.online-inspire.gov.in as "Cancelled Scholarship" and no further communication will be made separately to such scholars. All Scholars are also requested to visit their webportal regularly to see notifications on their Accounts related issues such as Invalid Account/ No Frills Account/ Joint Account/ Demand Account and to take necessary actions within one month of such notification.

6. **Payment and Continuation of Scholarship:** The Scholarship for 1st and 2nd years are paid together at the second year of the scholars' undergraduate course. The Scholarship is paid on the basis of following:

a) Year-wise requirements:

Year of Scholarship	Basis	Documents to be submitted
First	Based on (i) Class XII Board Marks and (ii) continuation in second year course in the identified science subject(s) at the UG level.	First Year B.Sc./B.S./Int. M.Sc./Int. M.S. (i) Performance Report and (ii) Original Mark-sheets Copy.
Second	Based on Performance in First Year B.Sc./B.S./Int. M.Sc./Int. M.S. Exams.	
Third	Based on Performance in Second Year B.Sc./B.S./Int. M.Sc./Int. M.S. Exams.	Second Year B.Sc./B.S./Int. M.Sc./Int. M.S. (i) Performance report and (ii) Original Mark-sheet Copy.
Fourth	Based on performance in Third year B.Sc./B.S./Int. M.Sc./Int. M.S. exams and joining M.Sc. course in the identified science subject(s) at PG level.	(i) Third year B.Sc./B.S./Int. M.Sc./Int. M.S. Performance Reports and Original Mark-sheet Copy & (ii) M.Sc. Enrolment Certificate.
Fifth	Based on performance in First year M.Sc. exams or Fourth year Int. M.Sc./Int. M.S. exams (as the case may be).	First year M.Sc. or fourth year Int. M.Sc./Int. M.S. Performance Report and Original Mark-sheet Copy.

b) For continuation of INSPIRE Scholarship, the scholar shall (i) pass in all subjects in first attempt, and (ii) secure minimum 60% marks or 7.0 GPA (on a 10.0-point scale) in higher annual examinations (or 2 semesters) in B.Sc. General/B.S./Int. M.Sc./Int. M.S. or M.Sc. examinations every academic year, failing which the scholarship for the next academic year will not be paid. If the grading in percentage conversion factor formula is not provided along with the mark sheet, then the CGPA will be evaluated on 10.0-point scale.

c) In case of B.Sc. Honours, for continuation of INSPIRE Scholarship, the scholar shall (i) pass in all subjects in first attempt, and (ii) secure minimum 60% marks or 7.0 GPA (on a 10.0-point scale) in higher annual examinations (or 2 semesters) in Honours subject in B.Sc./B.S./Int. M.Sc./Int. M.S. or M.Sc. examinations every academic year, failing which the scholarship for the next academic year will not be paid.

d) If a scholar has failed or could not attend the annual/any of the semester examination(s) in that year, the INSPIRE Scholarship for the next academic year will not be paid. However, scholarship will be released in the next to next academic year, provided the scholar's academic performance in next academic year is within the minimum eligibility norm mentioned at 5b and 5c.

e) The maximum tenure of INSPIRE Scholarship is five years. Except integrated MSc or integrated MS course, the scholarship shall continue at PG level only after successful completion of 3 years BS or 4 years BS course, for another two years or one year, depending upon the course pursued at the UG level. The Scholar needs to maintain their academic performance as per clause 5b, 5c and pursue only the identified subject(s) at the PG level. If it is otherwise, the continuation of scholarship at the PG level shall be cancelled automatically and no representations shall be entertained in this regard.

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY
Technology Bhawan, New Mehrauli Road, New Delhi - 110016



Date: 23/05/2016

Subject: Provisional Offer of INSPIRE Scholarship for students of 2017 Batch

Dear Miss Naincy Shrivastava,

On the basis of your application submitted under Scholarship for Higher Education (SHE) component of the scheme, Innovation in Science Pursuit for Inspired Research (INSPIRE), I am delighted to inform that you have been provisionally selected for the award of INSPIRE Scholarship for the period starting 2017, which is the year of your enrolment in B.Sc./M.Sc. or Int. M.Sc. Course. Your INSPIRE Scholarship Registration Number is 201700051105.

The final selection for scholarship will be subject to the satisfaction of norms as listed in the Post Offer Implementation Guidelines, which is enclosed along with this offer letter.

The total amount of the Scholarship is Rs 80,000/- per annum, out of which Rs 80,000/- as scholarship @ Rs 5000 per month and Rs 20,000/- per year shall be reimbursed for expenses towards summer research internships in research/academic institutions. The maximum tenure of this Scholarship is five years, or until the completion of M.Sc./Int. M.Sc./Int. MS course, whichever is earlier, provided you continue to maintain academic excellence and performance. Please note that a student cannot avail more than one scholarship at any time. Further, an acceptance of the INSPIRE scholarship by a student, switching over to other government scholarship schemes including KVPY, is not allowed at any stage without the due permission of the DST.

The Scholarship will be provided directly to you through the State Bank of India (SBI) to your bank account. To facilitate the transfer of Scholarship to your bank account, you are requested to open a normal Savings Bank Account in your name only, at any branch of State Bank of India (SBI) in the country, having no limit of cash transfer (Jadahan, Kiosk, Zero Balance Opening Account or similar type account may please avoided). Please note that joint account or account in Banks other than SBI will not be accepted. Upon opening of the Savings Bank account at SBI, you may please fill up the pro-forma available on the online web-portal with the requisite information.

This is provisional offer of scholarship on the basis of application submitted by you, but for the release of scholarship you have to upload the following documents on your web portal only in prescribed time frame as mentioned below.

1. Stage 1:

Submission of Account Details: The scholars must submit the Account details in the specified format (through the online portal only) along with the self-attested photocopy of front page of Bank Passbook and Aadhaar card or Aadhaar Enrolment Slip, within 120 days of this Offer. After the expiry of 120 days from the date of provisional offer, the online access to the webportal would be ceased and no further submission of Bank Account related formalities and other documents would be possible. The offer of the scholarship for all 5 years would stand cancelled and no representation will be entertained in this regard.

2. Stage 2:

Submission of B.Sc. First year Documents: The students who have successfully uploaded the bank details formalities as mentioned at Stage 1 would only be allowed to proceed further for stage 2. A maximum period of 365 days (1 year) from the date of offer would be allowed to the scholar for the submission of yearly Performance Reports and Mark Sheets of 1st year B.Sc./Int. M.Sc. or Int. M.S. Course through uploading on the webportal only. The webportal will be closed after the expiry of 365 days from the date of offer and further uploading of documents will not take place. It may be noted that the offer of scholarship would stand cancelled in case the scholar fails to submit the annual result within this time period.

iii. The scholarship will be processed for release to those students only who have successfully uploaded the documents as mentioned at Stage 1 and Stage 2 within stipulated time limit.

iv. The documents sent by post are not accepted under Scholarship of Higher Education (SHE) programme.

For any assistance during online submission of documents, you can write to inspire_prog_dst@nic.in or call 0120-4070260 (Mon-Sat, 10AM to 5PM).

With best regards,

Ms. Tanvina Anand
Scientist 'C'
INSPIRE Programme Division

To,
Miss Naincy Shrivastava
C/o Shriwan
Hawaldarpara Near Gauri Bhawan
Wardha - 442001 MAHARASHTRA

This is a computer generated letter, no signature is required

Department of Science and Technology

[INSPIRE Program]

Performance Report / Certificate from the Principal of the College/Director or Registrar
of the Institute or University for continuation of the INSPIRE Scholarship

INSPIRE Registration No: 201700051105

It is certified that Mr/Ms. Nainu Shrivankumar Jalan
son/daughter of Shrivankumar Jalan
T.B. Science College, Waudha is an INSPIRE Scholar of
(Name of the College/University/Institute)
and his/her performance is Satisfactory or Not satisfactory (strike-off whichever is not applicable)
in the First/Second/Third year of B.Sc./Integrated M.Sc./M.S. or First year of M.Sc. for continuation of
INSPIRE Scholarship. (strike-off whichever is not applicable)

I recommend that his/her INSPIRE Scholarship may be Continued or Discontinued in the
year 2017 to 2018.

It is also certified that the student is NOT receiving scholarship from any source other than the
Department of Science and Technology, Government of India.

Signature with Rubber stamp of the Principal
(Principal of the College/Director or Registrar of the Institute or University)
Place Waudha

Date 06/07/2018

Note: Attach self-attested copy of Marks-Sheet of the Annual/Semester examination of B.Sc./Int. M.Sc.
or M.Sc. course.

Maharashtra State Board of Secondary and Higher Secondary Education, Pune-04

NAGPUR

Divisional Board NAGPUR

0017B4

Advisory Note to the Candidate for Eligibility in Scholarship for Higher Education (SHE) component under INSPIRE scheme.

It is declared/ certified that

JALAN NAINCY SHRAVANRUMAR

Seat No. N051127

Hr. Sec. School No.

07 01 003

- Date of Birth

01-09-1999 is eligible

for award of Scholarship for Higher Education (SHE) under Innovation in Science Pursuit for Inspired Research (INSPIRE) by virtue of performance within top 1% of the School Board at Class XII level in the examination held during the academic session ending March 2017.

Performance in top 1% in Class XII Board examination and followed by enrolment into education in Basic and Natural Science courses at BSc/Integrated MSc or MS levels shall make you eligible for consideration of INSPIRE Scholarship for Higher Education of GoI valued at Rs. 80,000/- per year for five years.

In case of enrolling yourself into Bachelor or Integrated Master's level programmes in Basic and Natural Science courses at <http://www.inspire-dst.gov.in/SHE.html> (Select Blank Format Option—Endorsement Certificate) in any University or College in India, recognized by UGC, India, you are advised to register in Scholarship for Higher Education (SHE) through on-line registration at www.online-inspire.gov.in and apply with required documents through **ONLINE MODE** only, as and when this scheme is opened/announced for submission of application.

Please note that this Advisory Note is issued to you for intimation only. It is neither a selection letter of INSPIRE SHE scholarship nor has guarantee to offer the said scholarship to you by INSPIRE PROGRAM DIVISION.

Divisional Secretary,

Divisional Secretary,
Maharashtra State Board of Secondary Education,
Pune District Board, NAGPUR.

28 June 2019

To whom it may concern

Ms. Kalyani Badhiye has worked in my laboratory for the period of two months from 20 May to 28 June 2019. She has been a thorough impresser throughout the period of her stay by performing better each time and showcasing her versatility during her course performed various experiments including preparation of culture media, isolation of rhizobia from pea and chickpea root nodules, purification of bacterial cultures by streaking, gel electrophoresis, polymerase chain reaction (PCR), and identification of bacteria using MALDI-TOF MS.

During this time, it became immediately evident that Ms. Kalyani is a bright student and an ambitious learner on a pursuit of faultlessness. She would compel herself to perform better at each task and push her limits to yield the best results. She is sincere and intelligent with cordial behavior as an amenable team member. She has always been a great support to her fellow students in their research work. Based on my observation, she clearly has the interest to excel in the field of research and based on her performance, she has the ability to achieve success. If you need any more information about Ms. Kalyani, please do not hesitate to contact me.

Yours sincerely,



Dr. Praveen Rahi

Scientist and In-charge, MALDI-TOF MS facility,

National Centre for Microbial Resource,

National Centre for Cell Science, Pune

Phone: +91 20 25329023; e-mail: praveen@ncmr.res.in; praveen_rahi22@yahoo.co.in



SUMMER RESEARCH FELLOWSHIP PROGRAMME CERTIFICATE

This is to certify that Mr Kartik Ghanshyam Gokhe worked on a project entitled "Exoplanets: Methods of detection and analysis" during May - June 2019 as a Summer Research Fellow under the supervision of Dr R. Sridharan, Indian Institute of Astrophysics, Bengaluru. The Summer Research Fellowship Programme is jointly sponsored by IASc (Bengaluru), INSA (New Delhi) and NASI (Allahabad).

M. R. N. Murthy

Place: Bengaluru

Date: 02-07-2019

M. R. N. Murthy

Chairman, Science Education Panel



INDIAN ACADEMY OF SCIENCES

C. V. Raman Avenue, Post Box No. 8005, Raman Research Institute Campus, Sadashivanagar, Bengaluru 560 080, INDIA

SCIENCE ACADEMIES' SUMMER RESEARCH FELLOWSHIP PROGRAMME



Indian Academy
of Sciences
Bengaluru

C S Ravi Kumar

*Assistant Executive Secretary &
Coordinator, Science Education Programme*

02 July 2019

Mr Kartik Ghanshyam Gokhe
Shri Swami Samarth Nagari
Behind New Arts College Murarka Layout
Wardha 442001 [Maharashtra]

Email: kgokhe1@gmail.com

Dear Mr Gokhe,

We are happy that you have successfully completed the summer fellowship awarded to you. We hope that this has been a useful experience and will help you to shape your career in science.

The Academy would like to present you with complimentary copy of the Academy publications "C V Raman – A Memoir".

We would like you to keep in regular touch with the Academy about your career. Your page in our website will therefore remain open for the next few years. You can access it using the same userid and password provided to you. Please use this page to let us know about your career whenever you have something significant to report.

Wishing you the best in your career.

Yours sincerely,

C S Ravi Kumar



Indian National
Science Academy
New Delhi

Indian National Academy
of Sciences, India
Prayagraj

Contact Address:
Indian Academy
of Sciences
P B No 8005
C.V. Raman Avenue
(near Melina Circle)
Sadashivanagar P.O.
Bengaluru 560 080

Telephone :
080-2266 1207
080-2266 1202
080-2266 1221

Fax : 080-2361 6094

Email :

icarts@ias.ac.in

Website : www.ias.ac.in



सेन्टर फॉर मेटिरियल्स फॉर इलेक्ट्रॉनिक्स टेक्नोलॉजी (सी-मेट)

(वैज्ञानिक संस्था, इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय, भारत सरकार)
पंचवटी, ऑफ डॉ. होमी भाभा मार्ग, पश्चिम, पुणे - ४११ ००८, भारत.

CENTRE FOR MATERIALS FOR ELECTRONICS TECHNOLOGY (C-MET)
(Scientific Society, Ministry of Electronics & Information Technology (MeitY) Govt. of India)

Panchwati, Off. Dr. Homi Bhabha Road, Pashan, Pune - 411 008, INDIA.

Tel. : +91-020-2589 8390, 2589 9273, 2589 8141

Fax : +91-020-2589 8180 / 2589 8085

E-mail : cmetp@cmet.gov.in

Web : http://www.cmet.gov.in

Date: 10/10/2017/1192

To,
The Principal
Jankidevi Bajaj College of Science,
Wardha-442001,

Dear Sir,

With reference to your letter (J.B.C./1318/2017-18 dated 07/10/2017), I would like to give in-principle acceptance to officially collaborate with your institute Jankidevi Bajaj College of Science, Wardha for the proposed certificate course - 'Nanosense' in which students can visit our institute for two days during course. This collaboration would be instrumental in promoting the interdisciplinary nanotechnology at your institute.

I, along with the other members of C-MET, Pune will provide ample amount of time to your students during their visit in our institute during the certificate course 'Nanosense' subject to availability of time and resources. I am appointing Dr. Sudhir Arbuj, Scientist from my institute as a co-ordinator for this 'Nanosense' programme who will further communicate with your co-ordinator Mr. G. V. Lakhotiya and will take care of the visits of students from your institute. As per the feedback and demand, we can extend this series of 'Nanosense' twice a year. I ensure you to provide scientific input (and mentoring) but will not have any duties associated with your regular curriculum.

Further, in keeping mind the mission to promote and facilitate research for skill development, I am extending my hands to promote the research culture in the semi-urban area like Wardha and welcome the students for student internship programme under which the talented students (UG/PG) from your institute can plan a short-term internship in the field of material science and electronics technology at our place. This collaboration will not only help the society but also set the new trend of collaboration between a dedicated research institute like C-MET, Pune and academic institute like Jankidevi Bajaj College of Science, Wardha.

I look forward for this collaboration for next three years, subject to the conditions mentioned in the letter.

Sincerely,

Dr. Bharat B Kale
Director, C-MET Pune



सेन्टर फॉर मेटिरियल्स फॉर इलेक्ट्रॉनिक्स टेक्नोलॉजी (सी-मेट)

(वैज्ञानिक संस्था, इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय, भारत सरकार)

पंचवटी, ऑफिस डॉ. होमी भाभा मार्ग, पश्चिम, पुणे - ४११ ००८, भारत.

CENTRE FOR MATERIALS FOR ELECTRONICS TECHNOLOGY (C-MET)

(Scientific Society, Ministry of Electronics & Information Technology (MeitY) Govt. of India)

Panchwati, Off. Dr. Homi Bhabha Road, Pashan, Pune - 411 008, INDIA.

Tel. : +91-020-2589 8390, 2589 9273, 2589 8141

Fax : +91-020-2589 8180

E-mail : cmetp@cmet.gov.in

Web : <http://www.cmet.gov.in>

CERTIFICATE

This is to certify that the work incorporated in the present report entitled "Synthesis and Characterization of Metal Organic Frameworks specifically MIL-53 (Aluminium)" was carried out by Ms. Urvi Gupta graduate student of Bajaj College of Science, Wardha-442001 under my supervision. The work is carried out at C-MET Pune during summer internship (May 2019 to July 2019). Other material obtained from other sources has been duly acknowledged in this report.

Sudhir S. Arbuj
05/07/2019

Dr. Sudhir S. Arbuj

Guide

C-MET, Pune

NCCS/AC/ST-06/IAS-2019/981

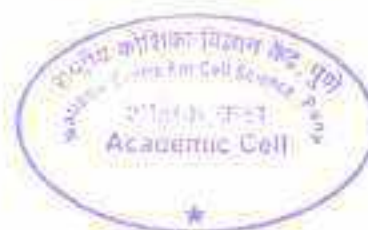
Date: 12.07.2019

TRAINING COMPLETION CERTIFICATE

This certificate is awarded to **Ms. Trupti Murkute** for successful completion of Summer Internship programme-2019 from 10.05.2019 to 12.07.2019 under the guidance of Dr. J. Joseph, Scientist 'F', NCCS, Pune.

Project Title: "Studying the in vitro interaction between the nucleoporin Nup358 and Ago2".

Mosami G
12/07/19
मोसमी गोसावी / Mosami Gosavi
त. अधिकारी 'क' / T. Officer 'A'
शैक्षिक कक्ष / Academics



To,
Mr. Trupti Murkute,
Summer Trainee-IAS

Shiksha Mandal's

Jankidevi Bajaj College of Science, Wardha

Autonomous college affiliated to RTMNU, Nagpur

(A Linguistic Minority College)

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with potential for Excellence, UGC, New Delhi

A
PROJECT REPORT ON

"PERFORMANCE PROPERTIES OF MODIFIED CORN STARCH AS AN LAMINATING ADHESIVE"

In the partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE

In **CHEMISTRY**

(FACULTY OF SCIENCE AND TECHNOLOGY)

Submitted by

Miss. Harshada Ashishrao Chikhalkar

M.Sc Chemistry (Sem-IV)

Under the Guidance of

Internal Supervisor

Dr. Pradip V. Tekade

Incharge

Department of Chemistry

Associate Professor

(M.Sc., Ph.D., NET, SET, GATE)

External Supervisor

Dr. Manoranjan Patnaik

Dy. Director Chemical

Industry Division, MGRI,

Wardha.



P.G. DEPARTMENT OF CHEMISTRY,

JANKIDEVI BAJAJ COLLEGE OF SCIENCE,

WARDHA- 442001 (M.S.) INDIA

2018-19

Shiksha Mandal's
Establishment Year : 1962

Jankidevi Bajaj College of Science, Wardha

*Autonomous College affiliated to RTMNU, Nagpur
(A Linguistic Minority College)
Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore
College with Potential for Excellence, UGC, New Delhi
Star College Scheme by DBT Govt. of India, New Delhi*

Office/Fax : (07152) 230515
Admn. Off. : (07152) 241696
Library : (07152) 255070
E-mail : info@jbcw.edu.in
website : www.shikshamandal.org



Jamnabai Bajaj Marg
Civil Line
Wardha - 442 001 (Maharashtra)
Uni. College No. : 802
Jr. College No. : 07-01-003

Ref No. J.B.C./ /20 -20


Date 22/04/2013

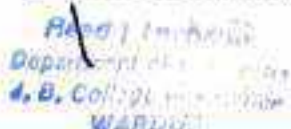
Certificate

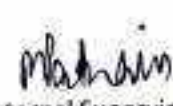
This is to certify that the work presented under Project entitled
"Performance properties of modified Corn starch as an laminating adhesive" is
the own work of Miss. Harshada Ashishrao Chikhalkar conducted in the
Chemical based Industry Division MGIRI Wardha and P.G. Department of
Chemistry, Jankidevi Bajaj college of Science, Wardha.

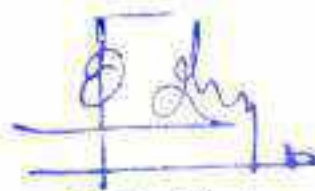
Place : Wardha

Date :


Internal Supervisor
Dr. P. V. Takade
Incharge
Department of Chemistry


Department of Chemistry
J.B. College of Science
WARDHA


External Supervisor
Dr. M. Patnaik
Dy. Director
Chemical Based Industry
Division, MGIRI, Wardha


Dr. Om Mahodaya
Principal
J.B. College of Science,
Wardha
PRINCIPAL
J.B. College of Science
WARDHA

Shiksha Mandal's

Jankidevi Bajaj College of Science, Wardha

Autonomous college affiliated to RTMNU, Nagpur

(A linguistic Minority College)

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with potential for Excellence, UGC, New Delhi

A

PROJECT REPORT ON

"MODIFICATION AND CHARACTERIZATION OF STARCH AS AN ADHESIVE"

In the partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE

In CHEMISTRY

(FACULTY OF SCIENCE AND TECHNOLOGY)

Submitted by

Miss. Sakshi Shyam Kawle

M.Sc Chemistry (Sem-IV)

Under the Guidance of

Internal Supervisor

Dr. Pradip V. Tekade

Associate Professor

(M.Sc., Ph.D., NET, SET, GATE)

External Supervisor

Dr. Manoranjan Patnaik

Dy. Director (Chemical
Industries Division) MGRI,
Wardha



P.G. DEPARTMENT OF CHEMISTRY,
JANKIDEVI BAJAJ COLLEGE OF SCIENCE,
WARDHA- 442001 (M.S.) INDIA
2018-19

Shiksha Mandal's
Establishment Year - 1962

Jankidevi Bajaj College of Science, Wardha

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E-mail jbscienceswardha@yahoo.co.in
website - jbsw.shikshamandal.org




Jamnimal Bajaj Marg
Civil Line
Wardha - 442 001 (Maharashtra)
Univ. College No. - 802
Jr. College No. : 07-01-003

Ref No. J.B.C./ /2018-2019

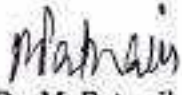
Date: 22/04/2019

Certificate

This is to certify that the work presented under Project entitled
"MODIFICATION AND CHARACTERIZATION OF STARCH AS AN ADHESIVE" is
the own work of Miss. Sakshi Shyam Kawle conducted in the P.G. Department of
Chemistry, Jankidevi Bajaj college of Science, Wardha.


Dr. Pradip V.
Tekade

Internal Supervisor
(M.Sc., Ph.D., NET,
SET, GATE)


Dr. M. Patnaik

Dy. Director (Chemical
Industries Division) MGRI,
Wardha


Dr. Om A. Mahodaya

Principal
Jankidevi Bajaj
College of Science,
Wardha

PRINCIPAL
J. B. College of Science
WARDHA

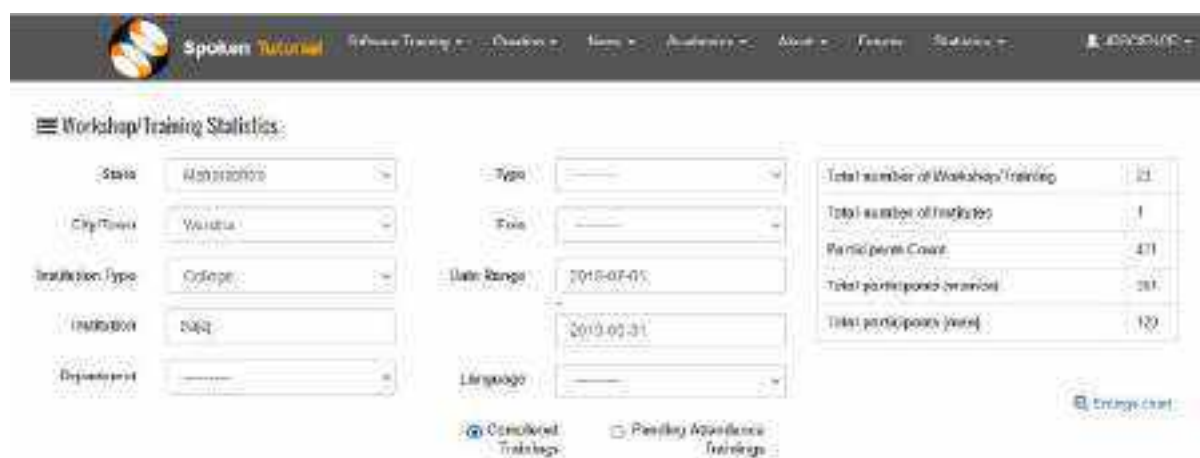

23-4-19

Shiksha Mandal's
Bajaj College of Science, Wardha
(An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)

Report of Spoken Tutorial Program of IIT, Bombay
(Session 2018-19)

Shiksha Mandal's Bajaj College of Science, Wardha is always keen to provide quality education to the students and also to enrich them with additional skills. For this, institute has started providing the learning facilities, in the form of Spoken Tutorial of IIT Mumbai, to the students to acquire software knowledge which is available online. Also, to make it more productive, we have added this activity in the college timetable and received satisfactory results. This activity is mandatory for all second year undergraduate students.

In the academic session 2018-19, total 471 students were enrolled in 23 training programs. The major trainings were offered in the following FOSS categories- ChemCollective Virtual Labs, ExpEYES, Arduino, LaTeX, CellDesigner and Python.




Incharge / Co-ordinator
Department Of Computer Science
Bajaj College Of Science, Wardha

Dr. P. A. Saudagar
Co-ordinator, STIIT



भारतीय प्रौद्योगिकी संस्थान मुंबई

पबई, मुंबई-400 076, भारत

Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

दूरभाष/Phone : (+91-22) 2572 2545

फैक्स/Fax : (+91-22) 2572 3480

वेबसाइट/Website : www.iitb.ac.in



Letter of Association

Date: 31st August 2018

To,
The Principal,
JANKIDEVI BAJAJ COLLEGE OF SCIENCE, WARDHA
Maharashtra

We are happy to announce the ASSOCIATION of Knowledge Partner Spoken Tutorial Program, IIT Bombay with JANKIDEVI BAJAJ COLLEGE OF SCIENCE WARDHA.

The Program is a part of the National Mission on Education through ICT, MHRD, Govt. of India, to spread IT Literacy all over India. We are promoting the learning and usage of Free & Open Source Software (FOSS), through an Audio-Video teaching tool, viz, 'Spoken Tutorial'.

We support and motivate colleges to train students on Basic Computer Skills, Software and IT. The course and the training is offered for Rs. 25,000 per year to all the Colleges.

You are making an outstanding contribution of using ICT based teaching and learning methodology for students of your College.

Yours Sincerely,

Shyama Iyer

Shyama Iyer
National Coordinator, Training
Spoken Tutorial, IIT Bombay



To Whomsoever It May Concern

This is to certify that Dr. Ms. Suhas Khandare, Department of Microbiology, Jankidevi Bajaj college of Science, Wardha, worked in my laboratory during 21-05-2018 to 04-06-2018 as a trainee. She has learned the techniques of SDS-PAGE Electrophoresis, Cloning and Primer Designing.

Date: 4/6/2018



Dr. Arvind Sahu

Scientist "G"

NCCS, Pune

Date: 01-06-2018

To Whom It May Concern

This is to certify that Dr. M. R. Chandrakar worked in Dr. M. K. Bhat's laboratory at NCCS during 21-05-2018 to 02-06-2018 as a trainee.

She has learned the basic techniques required to study Cytotoxicity i.e. Cell Culturing, Cell Counting, Subculturing, Techniques to study Cell Viability and Proliferation:MTT Assay and Western Blotting.


11/6/2018

Dr.M.K.Bhat
Scientist 'G' and Dean, (Academics)
NCCS,Pune



Date: 1.6.2018

To Whom It May Concern

This is to certify that Dr.U.A.Malode-Bidwai worked in DR. M. K. Bhat's laboratory at NCCS during 21-05-2018 to 02-06-2018 as a trainee.

She has learned the basic techniques required to study Cytotoxicity i.e. Cell Culturing, Cell Counting, Subculturing, Techniques to study Cell Viability and Proliferation:MTT Assay and Western Blotting.


16/6/2018

Dr.M.K.Bhat
Scientist 'G' and Dean, (Academics)
NCCS,Pune



NCCS

National Centre for Cell Science, Pune

(Autonomous Institute of Dept. of Biotechnology, Govt. of India)

This is to certify that

Mr. Vaibhav Khandwekar

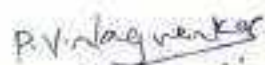
participated and successfully completed the
Hands-on Training Workshop on

Basic Cell Culture Technology

conducted by
NCCS Cell Repository
May 14th-17th, 2018



Dr. Shekhar Mande
Director



Dr. Punam Nagvenkar
Course Co-ordinator



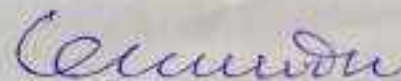
Dr. Rahul Patil
Course Co-ordinator

4th June, 2018

Certificate

(To whomsoever it may concern)

This is to certify that, Dr. Prashant G. Borkar of Jankidevi Bajaj College of Science, Wardha (Maharashtra) has worked at NCCS in my laboratory from 21st May 2018 to 4th June 2018 as Visiting Faculty. During his stay at NCCS, he learnt some basics of cancer research and planned for long term R&D project "Development of new anticancer agents" in collaboration with me.



Dr. Gopal C. Kundu
Scientist-G,
Laboratory of Tumor Biology,
Angiogenesis and Nanomedicine Research,
National Centre for Cell Science (NCCS),
Pune 411007, India.

Shiksha Mandal's

Jankidevi Bajaj College of Science, Wardha

Department of Chemistry


To,

The Principal,

Jankidevi Bajaj College of Science, Wardha

Sir,

We are happy to inform you that one of our P.G. student Ms. Mansi Pande successfully completed the Internship Work under the supervision of Dr. Shweta Jagtap, Asstt. Prof, Dept. of Instrumentation Science, S. P. Pune University, Pune from 25th April 2018 to 30th May 2018. Prof. Govinda Lakhotiya guided her in this regard.



(Dr. P. V. Tekade)

Co-ordinator, PG, Chemistry



Internal Epx : 1416
Phone : +91-20-25695195
Fax : +91-20-25695301

Savitribai Phule Pune University

(Formerly known as)

University of Pune

Department of Instrumentation Science

(University Science Instrumentation Centre)

Ganeshkhind, Pune 411007.

e-mail : hod@disc.unipune.ac.in
URI : <http://disc.unipune.ac.in>

30/05/2018

Internship certificate

This is to certify that Mansi Sudhir Pande, a student of Masters of Science (Chemistry) of Jankidevi Bajaj college of Science, Wardha (Autonomous), R.T.M. Nagpur University, Nagpur worked on nanoparticle synthesis of zinc oxide compound and its humidity sensing application. Her internship work was held from 25th April 2018 to 30th May 2018 under the guidance of Dr. Shweta Jagtap, Asst. Professor, Dept. of Instrumentation Science, S.P. Pune University, Pune. She has successfully synthesized ZnO nanoparticles and has been able to present a good picture of concerned works.

Mansi Sudhir Pande possesses a good moral character and pleasing personality. I wish her every success in life.



Dr. Shweta Jagtap
Assistant Professor

Department of Instrumentation Science,
Savitribai Phule Pune University, Pune

Establishment year : 1962

Shiksha Mandal's

Jankidevi Bajaj College of Science, Wardha

Autonomous College

A Linguistic Minority College

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with Potential for Excellence, UGC, New Delhi

Star College Scheme by DBT Govt. of India, New Delhi

Ranked 88th by NIRF, Ministry of HE, New Delhi

Office/Fax : (07152) 230515

Admin. Off. : (07152) 241596

Library : (07152) 295070

E-mail : jbsciencewardha@yahoo.co.in

website : jbcw.shikshamandal.org

Ref No. J.B.C.J / 672017-2018



Jankidevi Bajaj Marg,

Civil Line

Wardha - 442 003 (Maharashtra)

Uni. College No. : 802

Jr. College No. : 07-01-003

Date 21/12/2017

To,

Dr. Anil Shanware,

Director, RGSC, RTMNU,

Amravati Road, Nagpur.

Madam,

Jankidevi Bajaj College of Science was established in 1962 by Shiksha Mandal, with the prime objective of catering science education at Wardha. It is Grant-in-aid College affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The college is accredited by NAAC with the prestigious 'A' grade (CGPA of 3.21) and honoured with a status of College with Potential for Excellence (CPE) by UGC, New Delhi and selected under 'Star College Scheme by Govt. of India. Recently it is conferred with **Autonomy** status. It is a linguistic Minority institution offering undergraduate, postgraduate and Ph.D. programme in science faculty.

Department of Life Sciences (Microbiology, Zoology, Botany, and Chemistry) runs both UG and PG courses. To make our students more acquaint with current trend in research and to come across with research culture we are planning to visit your esteemed and well known institute in the month of January 2018, keeping in view the soothing academic communication with research institute and college which may help to frame a bridge between them. It's a humble request to you to provide us date as per your convenience. Our students will be more fortunate if they get chance to visit your institute which has a strong inheritance. Hope for positive reply and oblige.

Regards,

Sincerely,


Dr. O. A. Mahodoya

Jankidevi Bajaj College of Science, Wardha

P. G. Department of Microbiology

Industry-Academia Meet: Rajiv Gandhi Biotechnology Centre (RGBC), Central Citrus Research Institute(CCRI), and Government Institute of Forensic Science, Nagpur.

2nd February 2018.

Report

Department of Microbiology has organized an educational tour under industry-academia programme on 2nd Feb.2018. Total 40 post graduate students of semesters II and IV along with PG Coordinator Dr. Ulka Malode and faculty, Mr. Suraj Kombe visited Rajiv Gandhi Biotechnology Centre and Central Citrus Research Institute Nagpur. Students get benefited by this tour since they come to know the working and different sectors in research institute. At Rajiv Gandhi Biotechnology Centre, students visited Central Research and Development laboratory, Gene Laboratory and Animal Tissue Culture Laboratory. The students came to know working of PCR, Horizontal Electrophoresis, Lyophilizer etc. Consultancy officer at Rajiv Gandhi Biotechnology Centre demonstrated the Production of Biofertilizer and biopesticides. Dr. Arti Shanware, Director of Rajiv Gandhi Biotechnology Centre addressed about mission, vision of RGBC and delivered a lecture on Liquid Biofertilizer.

Dr.C. N. Rao, Principal Scientist and Dr. Dhengre, Scientist at CCRI laborates the ongoing research work at Central Citrus Research Institute (CCRI). Students get acquainted with the various laboratories at CCRI such as Entomology Laboratory, Plant pathology and Nurseries. A live demonstration was arranged on the budding process of Citrus plants in nursery.

At Government Institute of Forensic Science, Prof. Milind Panchabhai addressed us about the Institute and make our visit feasible at different Laboratories by demonstrating FTIR, Research Microscope, U.V Visible Spectrophotometer, HPLC and Video Spectral Comparator (VSC) machine which is used for the analysis of Question Documents in Forensic Sciences.



Post Graduate students along with Staff Dr.U.A.Malode and S.V.Kombe gathered at college campus to start journey to Nagpur for Industry visit and Consultancy Officer at RGBC giving demonstration on Biofertilizer and Biopesticide Production



Consultancy Officer at RGBC giving demonstration on Biofertilizer and Biopesticide Production



Post Graduate students along with Staff Dr.U.A.Malode and S.V.Kombe during presentation on working of CCRI, Nagpur and Dr.Dhengre ,Scientist at CCRI demonstrating methods of biological pest control



Post Graduate students along with Staff Dr.U.A.Malode and S.V.Kombe at Nursery of CCRI,Nagpur



Technician at CCRI,Nagpur giving Demonstration on Budding of Citrus Plant and Dr.MilindPanchbhayee, faculty at Govt.Institute of Forensic Science,Nagpur addressing students



A lecture delivered by Dr.Arti Shanware, Director of Rajiv Gandhi Biotechnology Centre on Liquid Biofertilize and Vote of thanks delivered by Dr.U.A.Malode to Dr.Arti Shanware and team, Director of Rajiv Gandhi Biotechnology Centre,Nagpur



Students presenting a token of Love Dr.Arati Shanware and team, Director of Rajiv Gandhi Biotechnology Centre, Nagpur and Thanks giving letter and token of love on behalf of J.B.College of Science,Wardha given to Dr.C. N. Rao, Principal Scientist and Dr. Dhengre, Scientist at CCRI,Nagpur.



Thanks giving letter and token of love on behalf of J.B.College of Science,Wardha given to Dr. Khobragade,Director ,Govt.Institute of Forensic Science,Nagpur

(Dr. U.A. Malode)
P. G. Coordinator
Dept. of Microbiology

Jankidevi Bajaj College of Science, Wardha

Autonomous College

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Jamnalal Bajaj Marg,
Civil Line
Wardha - 442 001 (Maharashtra)
Uni. College No. : 802
Jr. College No. : 07-01-003

Date 21/01/2018

Ref No. J.B.C./ /2017-2018

To,
Mr. Vivek Mehrotra,
Vice president, H.R.
Uttam Galva Metalics Ltd.,
Bhugaon Link Road, Wardha.

Dear Sir,

We are highly obliged to you and team of "Uttam Galva Metalics Ltd., Bhugaon Link Road, Wardha" for organizing industrial visit of P.G.(Chemistry) students of our college. Our students and faculty definitely get benefitted by this visit. We hope same cooperation from you in future also.

With regards

Beal
Head / Incharge
Department of Chemistry
J. B. College of Science
Wardha

Yours Faithfully,
Dr. Om A. Mahodaya
Dr. Om A. Mahodaya
Principal,
(Principal) Beal
College of Science, Wardha

Jankidevi Bajaj College of Science, Wardha

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Jamnalal Bajaj Marg,
Civil Line
Wardha - 442 001 (Maharashtra)
Uni. College No. : 802
Ir. College No. : 07-01-003
Date: 25/01/2018

Ref No. J.B.C./ /2017-2018

To,
Mr. Vivek Mehrotra,
Vice president, H.R.
Uttam Galva Metalics Ltd.,
Bhugaon Link Road, Wardha.

Subject: Educational tour to your esteemed organization.

Sir,
Jankidevi Bajaj College of Science, Wardha was founded in 1962 by Shiksha Mandal Wardha, which imparts Science education to more than 1500 students from Junior college to Ph.D. At present, our college is an autonomous college with linguistic minority status.

Sir, about 35 students of M.Sc Chemistry are interested to visit your esteemed industry particularly research laboratories and sophisticated instrumentation centre. Three staff members would also accompany them.

We shall be highly obliged if you permit us to visit your institute and convey the date of visit on 19th or 20th December 2017.

Contact Person : Dr. P.V.Tekade (pradiptekade@gmail.com, 9422556608/9673459736)

Thanking you.

Dr. P.V. Tekade
Head / Incharge
Department of Chemistry
J.B. College of Science
Wardha

Dr. Om A. Mahodaya
Yours Faithfully,
Principal,
Jankidevi Bajaj
College of Science, Wardha.

JANKIDEVI BAJAJ COLLEGE OF SCIENCE, WARDHA (AUTONOMOUS)

P.G.DEPARTMENT OF CHEMISTRY (SR. COLLEGE)

INDUSTRY ACADEMIA MEET: UTTAM GALVA METALLICS LIMITED, WARDHA

DATE: 25TH JANUARY, 2018

Report

To inculcate Research, Idea and to enrich knowledge of students about industrial work for job placement after completion of education, one day educational tour to Uttam Galva Metallics Ltd. Wardha was organized for P.G. students on Wednesday, 25th January, 2018. Thirty five students and four staff members visited to Uttam Galva Metallics Ltd., Wardha.

Uttam Galva Metallics Ltd. Wardha is one of the largest manufactures of cold rolled steel and galvanized steel in India. In this industry, the faculty and student visited to Quality Control (Q.C.) Division of Uttam Value Steels Limited (previously known as Lloyds Steel Industries Limited). Security instructor Mr. Amitendra Dwivedi delivered information regarding rules, regulations and safety aspect to the students and faculty. They provided safety helmet and Leather shoes to students and faculty. In QC division, we visited to following NABL Aggregated Laboratories.

1. Chemical Laboratory
2. Polishing Laboratory
3. Spectral Laboratory
4. Physical Laboratory
5. Q.C. Workshop
6. Environmental Laboratory

In Chemical Lab. Mr. K. Wadkar demonstrated the strohlein apparatus. This apparatus is used to determine carbon and sulphur in metallic alloy. Information about tubular furnace, fume hood and operation procedure of macro weighting balance was also provided.

In Polishing lab, Mr. K. Wadkar gave information about utility of polishing machine. This machine is utilized for the preparation of cube material of metallic alloy, required for the spectral analysis of metal alloy. In spectral laboratory, Mr. Wadkar gave the demonstration and information about working and principle of Spectro Analytical Instrument. This instrument is

utilized for the analysis of various elements such as Sulphur, Nitrogen, Hydrogen, and Oxygen etc. in Metallic alloy.

Mr. Gosh gave information about Physical laboratory regarding different parameters i.e. Tensile strength, Compressive and Bend Properties, Impact test, Bending and Folding, Metal susceptibility in high and low temperature etc. Mr. Gosh demonstrated different types of physical testing Machine such as Rocked Hardness testing, Universal testing machine, Impact testing machine, Bending and folding machine and Erichsen Cupping Machine. He also gave information about handling and utility of liquid nitrogen for determination of strength capability of metal at low temperature. In Q.C. workshop, the instructor gave information of preparation of metal job for physical testing. We have collected information related to air and water pollution in the Environmental Laboratory and related to the test parameters to analyze various types of water and air pollutants released from the industry.

This tour enriched the knowledge of students about Industry and working of various sophisticated Instruments.



Visit to Uttam Galva Metallics Limited, Wardha



Demonstration of Metal Polishing in Polishing Lab.



Demonstration of Physical Lab. Instruments



Demonstration in Chemical Lab. and Spectra Lab.

Atul

H.O.D

Head Incharge
Department of Chemistry
J. B. College of Science
WARI

Atul

Co-ordinator

Co-ordinator
P.G. Department of Chemistry
P. G. Dept
J. B. College of Science
WARI

Establishment Year: 1962

Shiksha Mandal's

Jankidevi Bajaj College of Science, Wardha

Autonomous College

A Linguistic Minority College

Reaccredited 'A' Institution (CGPA 3.21), NAAC (UGC), Bangalore

College with Potential for Excellence, UCC, New Delhi

Star College Scheme by DBT Govt. of India, New Delhi

Ranked 88th by NIRF, Ministry of HRD, New Delhi

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Jankidevi Bajaj Marg,

Civil Line

Wardha - 442 001 (Maharashtra)

Uni. College No. : 802

Jr. College No. : 07-01-003

Date 21/8/2017

Ref No. J.B.C./1300/2017-2018

To

Dr P B Kale,

Director MGIRI, Wardha

Subject: Request to supervise project work of M. Sc. (Chemistry) students

Dear Sir,

The M.Sc. (Chemistry) students have to carry out the project work in their degree course. He/she may carry the work at any of the national /regional/private research institute/organization. The project can be of following types.

A) Experimental Project Work; OR B) Field Based Project Work; OR C) Review writing based Project Work.

From this year we are in consideration to consign three/four PG students to your reputed institution for their project work under the stewardship of you and supervision/guidance of your colleagues. The fees for carrying work prescribed by University is Rs. 1500/-per student. Students will be free for carrying their work at your institution in the afternoon session after their theory classes in the college. The detail guidelines are attached herewith (Appendix I). Date of submission of synopsis of proposed work-15th September 2017 and Date of submission of dissertation -15th January 2017.

Kindly see the feasibility and do the needful.

Contact Person: Dr P V Tekade, Co-ordinator, PG (Chem), J B College of Science, Wardha; cell no. 9422556608

Thanking you!

Regards,

Principal

Copy to: Dr Manoranjan Patnaik, Deputy Director, Chemical Based Industries, MGIRI, Wardha

Jankidevi Bajaj College of Science, Wardha

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Jankidevi Bajaj Marg,
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Wardha - 441 001 (Maharashtra)
Dist. College No. : 902

Je. College No. : 07-03-003

Ref No. J.B.C./ (2015-2016)

Date : / / 2016

Certificate

This is to certify that the work presented under Project entitled "Preparation of soy-flour based adhesive and it's characterisation by DSC and TGA" is the own work of **Ku. Shraddha P. Ingale** conducted in the P.G. Department of Chemistry, Jankidevi Bajaj college of Science, Wardha and Chemical Industries Division MGRI, Wardha

Dr. Pradip V. Tekade

Internal supervisor

Dr. M. Patnaik

External supervisor

Prof. V. B. Patil

Head

Department of chemistry

Dr. Om A. Mahodaya

Principal

Jankidevi Bajaj College of Science,
Wardha

ShikshaMandal's

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Uni. College No. : 002


Jr. College No. : 07-01-003

Ref No. J.B.C./ /20 -20

Date : 13/4/2018

Certificate

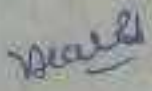
This is to certify that the work presented under Project entitled
"Study of nutrient transfer from soil to the plant biomass in different stages of
plant development (Fenugreek)" is the own work of Mr. P. D. Lande conducted in
the P.G. Department of Chemistry, Jankidevi Bajaj college of Science, Wardha and
Chemical Industries Division, MGRI, Wardha


Dr. Pradip V. Tekade

Internal supervisor


Mr. V. C. Chaudhary

External supervisor


Prof. V. B. Patil

Head

Department of chemistry


Dr. O. A. Mahodaya

Principal

Jankidevi Bajaj College of Science,
Wardha

Establishment Year - 1962

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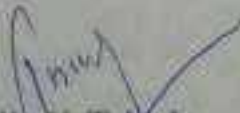
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Dist. College No. 302
Jc. College No. 07/01/003


Ref No. J.B.C./ 2017-2018

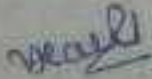
Date: 13/4/2018


Certificate

This is to certify that the work presented under Project entitled "Screening of nutrient transfer from soil to the plant biomass in different stages of plant development (Spinach)" is the own work of Miss. Shweta M. Dablikar conducted in the P.G. Department of Chemistry, Jankidevi Bajaj college of Science, Wardha and Chemical Industries Division, MGRI, Wardha.


Dr. Pradip V. Tekade
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Mr. V.C. Chaudhary
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Prof. V. B. Patil
Head
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