Shiksha Mandal's Bajaj College of Science, Wardha

LEGE OF

WARDHA

(Formerly known as Jankidevi Bajaj College of Science)

4th Cycle: Assessment and Accreditation by NAAC

Criterion II

Teaching- Learning and Evaluation

QIM 2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences Establishment Year : 1962 AISHE Code : C-18638 Shiksha Mandal's

Uni. College No. 652 Jr. College No. 07-01-003



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)



Date: 2/7 4CC 2022

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

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

Ref. No. BCS/ /20 -20

DECLARATION

This is to declare that the information and data furnished as supporting/additional document in the metric 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences are true to the best of my knowledge and is verified by IQAC.

Dr. M. R. Chandrakar IQAC Co-ordinator



Prof. F . Tekade

Principal (Offg.) Offi. Principal Bajaj College of Science WARDHA





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" (CGPA 3.21) | CPE (Phase II)



AISHE ID: 18638

2.3.1: Student Centric Methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

Supporting Documents

- Experiential Learning
- 1. Internships
- 2. Field Trips and Industrial Visits

Participative learning

1. Webinars, Workshops, Seminars, Guest Lectures, and Laboratory Experiments

Problem solving methodologies

- 1. Project based learning
- 2. Quiz
- 3. Assignments

2.2.1 Details of Internships in industry

			2021-2022
Sr. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant
3	Summer Training Project Under 'INSPIRE SHE Programme'	Department of Chemistry, Fergusson College (Autonomous), Pune.	INIS AVUSNI NITIN
			2020-21
6	CSIR Summer Research Training Programme for Students and Young Faculty (CSIR SRTP 2020) " S" Grade	Dr. Nidhi Kaushik SRM University, Delhi NCR, India. Email: maxwell2nidhi@gmail.com Host Institute, CSIR NEIST, Jorhat, Assam	Dr. B. V. Mohite
7	o ,	Host Institute, CSIR NEIST, Jorhat, Assam. Mentor: Dr. Nasir UI Rasheed Rather, Senior Scientist, CSIR – Indian Institute of Integrative Medicine,Canal Road, Jammu – 180001 Email: dr.nasir@iiim.res.in	Mr. Mohan Kapse
8	CSIR Summer Research Training Programme for Students and Young Faculty (CSIR SRTP 2020) " B" Grade	Host Institute, CSIR NEIST, Jorhat, Assam. Mentor: Dr. D. Sumitha,Assistant Professor,St. Joseph's College of Arts and Science (Autonomous) Cuddalore, Tamilnadu.	Ms. Nikita Khare

9	Development of Irradiated Chitosan Based Technology to Enhance Yield and Stress Tolerance in Cotton- Pigeonpea	Dr. Ashish Srivastava, Scientist, Plant Stress Physiology and Biotechnology Group, Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Mumbai. Email: ashish@barc.gov.in	Dr. Dhiraj Naik, Dr. Ashish Shrivastava	
			2019-20	
11	Project	Nabira Mahavidyalaya, Katol.	 Ms. Shubhangi S. Pande, Ms. Ruchita S. Raut, Ms. Sonal R. Rewatkar (M.Sc. II students of Nabira Mahavidyalaya, Katol) 	
12	Project	Mahatma Gandhi Institute for Rural Industrialization MGIRI- Wardha: A National Institute under the Ministry of Micro and Medium Enterprises, Govt. Of India	1. Ms. Mamata Chandank 2. Priya Kadu	
14	Summer Internship Programme	Prof. Sameer Kumar Patra, National Institute of Technology, Rourkela, Odisha	Ayushi D Chaudhari	
15	Summer Internship Programme	Dr. Vidyadevi Negi, National Institute of Technology, Rourkela, Odisha	Aaditya Vilas Bhaskarwar	
	2018-19			
16	Internship program for UG students	Department of Instrumentation Science, Savitribai Pune University, Pune	Mr A C Nagrale	

18	Internship program for UG students	National source of microbial resource (NCMR), Pune	Ms. Kalyani Badhiye
19	Summer Research Fellowship Programme	Sponsored by IASC (Banglore) and INSA (New Delhi) and NASI (Allahabad)	Mr Kartik G Gokhe
20	Internship program for UG students	Centre for Materials for Electronics Technology C-MET Pune: Ministry of Electronics & Information Technology (MeitY), Govt. of India	Ms. Urvi Gupta
21	Summer Research Fellowship Programme	National Centre For Cell Sciences (NCCS), Pune	Ms. Trupti Murkute
			2017-18
25	Internship	Dept. of Instrumentation Science, S. P. Pune University, Pune	Ms. Mansi Pande
28	Project	Mahatma Gandhi Institute for Rural Industrialization: MGIRI- Wardha : A National Institute under the ministry of micro and medium enterprises, Govt. Of India	 Pranay Lande Shweta Dahilkar Shraddha Ingale

and research labs

Duration	Nature of the activity	Link to the relavant document
From 24th September 2021 to 22th November 2022	Project on topic "Biodegradable, Sustainable, Efficient Biocomposite Phosphyrated Chitosan Modified Flame Retardant with Agro Waste Product: Banana Pseudostem"	
June 2020 to August 2020	Summer Research Training Programme	<u>https://jbsw.shikshamandal.or</u> <u>g/wp-</u> <u>content/uploads/2022/08/1</u> <u>Certificates-of-CSIR-SRTP.pdf</u>
June 2020 to August 2020	Student Performed Work on the Topic 'Charcoal/ Biochar Formation From Dried Leaves'	
June 2020 to August 2020	Student Performed Work on the Topic "Study on Active Compounds From the Medicinal Plants Used in Treatment of Cystic Fibrosis"	

From June-2020 to till date	Field crop performances	<u>https://jbsw.shikshamandal.or</u> g/wp- content/uploads/2022/08/2 Collaboration-with-BARC.pdf
January 2020 (One month)	Students performed their MSc project work in chemistry department of our college under guidance of Dr. P.V.Tekade and Dr Akhil Nakhate	
Sept.2019 - February 2020 (six months)	Students Performed MSc Project Work Under the Scientists of Chemistry Based Division	
May 2019 to July 2019 (3 Months)	Student Performed Work on the Topic "Role of Epigenetic Regulators and Hedgehog Signaling in Covalent Gene Expression"	
May 2019 to July 2019 (3 Months)	Student Performed Work on the Topic "Putative SH3 Domain Containing Proteins (YgiM) Role in Salmonella Infection"	
	ſ	
6/5/2019 to 17/6/2019	Internship	

		_
20/05/2019 to 28/06/2019	Internship	
2/5/2019 to 2/7/2019	Summer Research Programme	
02/05/2019 to 05/07/2019	Internship	
10/5/2019 to 12/07/2019	Summer Research Programme	
25 th April 2018 to 30 th May 2018	Internship Work Under The Supervision of Dr. Shweta Jagtap, Asstt. Professor	
2017-2018 Six months	PG (Chemistry) Students Completed Their Projects Under Scientist of Chemistry Based	

Division

ShikshaMandal'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 <u>ibsciencewardha@yahoo.co.in</u> website : jbsw.shikshamandal.org



Jamnalal 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: / /20

Certificate

This is to certify that the work presented under Project entitled "Biodegradable, Sustainable, Efficient Biocomposite Phosphyrated 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)

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

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

Dr. Om dava Searce. Banjoa

FERGUSSON COLLEGE, PUNE

DEPARTMENT OF CHEMISTRY

NO OBJECTION LETTER FOR UNDERGOING SUMMER PROJECTS OF INSPIRE SCHOLARSHIP

Name of student:

AYUSHI NITIN DESHMUKH

Student id: 673331 Roll no: 4222

College: Fergusson college (Autonomous), Pune

Duration of visit for summer project: from 27/09/2021 to 5/11/2021

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

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

N.B. July

Signature of Head of Deparment

Dept. of Chemistry Fergusson College, Pune-4.

Jehneke

Signature of student:

8 of 160.



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 DESHMUKH AYUSHI NITIN of Seat No N051069 and having College Index Number 0704004 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 eligibl 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.

Landerson

Secretary Maharashtra State Board Of Secondary & Higher Secondary Education, Pune NAGPUR DIVISIONAL BOARD (Signature With Seal)

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To Principal Jankidevi Bajaj College of Science, Wardha

Through : Head of Department Department of Chemistry.

Application: Regarding Research Project Work under DST - Inspire schodarchip programe.

Respected Sir, I am a student of fergusson College, Pune and Studying in find year (2021-22). I have been awarded with DSI programe - Inspire Scholarship for Higher Education. In this, I have to do mentorship programe and Submit Research Project. Hence I am writting 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.

forwarded (10 y 25/09/2021 25/09/2021

Thank you! Ayushi Deshmukh. Mob: 9823746570 EmailId: ayushi deshmukh 70@ gmail.com

Dr. A.V. Nakhute will be mentanter polidate has to pay Harrive will be provided it. Fine/heavy chemicals has be procured by the cundidate

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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



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



CERTIFICATE



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

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

NAAC'S

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То,

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 26thDec. to 26thJan. 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, Kato, Principal Nabira Mahavidyalaya Katol

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 :<u>ibsciencewardha@yahoo.co.in</u> website : jbsw.shikshamandal.org



Jamnalal 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

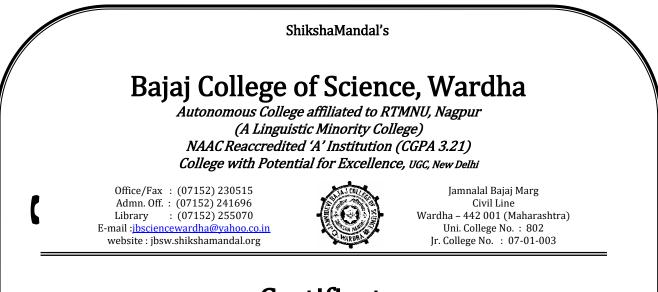
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Project Co-Supervisor Dr. Akhil V. Nakhate

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

III Page





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

Wakhale.

Project Co-Supervisor Dr. Akhil V. Nakhate

Head/Incharge Department of Chemistry

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

III Page

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

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Bajaj College of Science, Wardha

	Autonomous college affiliated t	O PTMANUL N
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1997 - 19	Reaccredited 'A' Institution (CGPA 3.21 College with potential for Excelle Star College Scheme by DBT	l), NAAC (UGC), Bangalore
		vt of India New Dellin
Office/Fax	: (07152) 230515	
Admn. Off	: (07152) 241696	Jamnalal Bajaj Marg
Library	: (07152) 255070	Civil Lines
Email	: jbsciencewardha@yahoo.co.in	Wardha-442001 (Maharashtra)
Website	ibew shikshaman 1 1	Uni. College No. 802
WEDSILE	: jbsw.shikshamandal.org	Jr. College No. 07-01-003

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

Date: / /20

Certificate

- 20

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 Pradi ekade Internal supervisor /Heo-e

abansi

Dr. Nita Mohaansi Hend Corodinator Department of Chemistry

Manain

Dr M. Patnaik External Supervisor

Dr Om A. Mahodaya Principal Bajaj Science College, Wardh

2

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), MGIRI, Wardha



P.G. DEPARTMENT OF CHEMISTRY, BAJAJ COLLEGE OF SCIENCE, WARDHA – 442001 (M.S.) INDIA 2019-2020

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Bajaj College of Science, Wardha

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Library .	: (07152) 255070	Wardha-442001 (Maharashtra)
Email	: jbsciencewardha@yahoo.co.in	Uni. College No. 802
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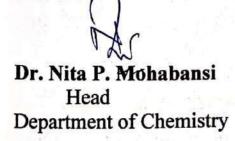
Ref No. J.B.C./ /20 - 20

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 W/ Tekade Internal supervisor



Manam

Dr. M. Patnaik External Supervisor

Dr. Om A. Mahodaya Principal Bajaj Science College, Wardha 25 of 160.

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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

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

To Dr R K Gupta, Director, MGIRI, Wardha

AND A

Jamnalal Bajaj Marg, Civil Line Wardha – 442 001 (Maharashtra) Uni. College No. : 652 Jr. College No. : 07-01-003

Date: // / / 0/2019

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. Jamanalal 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 paff 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.

Mahodaya) cipal 1

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महातमा 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) मगनवाडी, वर्धा - 442001, महाराष्ट्र, भारत Maganwadi, Wardha - 442001, Maharashtra, India द्राभाष इ. Ph. 07152-253512, फैक्स इ. Fax. 07152-240328

ई मेल E-mail director mgiri@gmail.com बेवसाईट Website <u>www.mgiri.org</u>

No. MGIRI/RCI/2018-19/125

दिनांक/Date: 19/07/2018

The Principal J B Science College, Wardha.

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

Sir,

To

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

Deputy Director RCI Division

(Dr. M Patnaik)

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.

State	Maharashtra	~	Туре		v	Total number of Workshop/Training	18
City/Town	Wardha	v	Foss	-	~	Total number of Institutes	1
						Participants Count	1093
stitution Type	College	*	Date Range	2019-07-01		Total participants (women)	464
Institution	Bajaj			2020-05-31		Total participants (men)	629
Department		v	Language ⓒ Complete Training		v tendance Trainings	20.7%	
Dopartmont		v	Complete		tendance Trainings	20 7% 79 3%	

Co-ordinator, STIIT



भारतीय प्रौद्योगिकी संस्थान मुंबई

पवई, मुंबई-400 076, भारत

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

दूरभाष/Phone		(+91-22) 2572 2545
फैक्स/Fax	1	(+91-22) 2572 3480
वेबसाईट/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**.

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ORI

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Yours Sincerely,

Shyama Jyer

Shyama Iyer National Coordinator, Training Spoken Tutorial, IIT Bombay



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



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 Caveolin1 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.

[19

Prof. Samir Kumar Patra Supervisor

फोन Phone : (0661) 2476773, फेक्स Fax : (0661) 2462022, चेक्साइट 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

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 M.Sc. 1st year Microbiology Department of for summer internship with fellowship at NIT Rourkela to be held

during 20.05.2019 to 20.07.2019. He she will the join the programme if selected**.

deludere

Dr. Ms. S. S. Khandare (Signathed Pept of Microbiology pt.)

Name of the Head of the Dept. Dr. Ms. Swhos S. Khandare Name of the Institution J.B. College of science, wordha.

Office Seal:

1 1826 WARDHA.

** 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 in 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 1yr, 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



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

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.

19/01/2019

Vidya Devi Negi

Dr. Vidya Devi Negi, Ph.D. Assistant Professor Department of Life Science National Institute of Technology Rourkela-769008, Odisha, India 19.07.2019

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

33 of 160.

FOR SUMMER IN HERNSHIP PROGRAMME 2019 at NH ROURKEELY

120. 03.052019

10

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

Recommendation

Trecommend Aditya Vilas Bhaskaewar

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 the join the programme it

selected**.

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Dr. Ms. S. S. Khandare (Stynnessed, Depts dilmichaelisticael) cpt.) 1 B. College of Reisnow, Wardha

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

Office Seal:



⁸⁵⁶ If selected, the student should initiale institut confirmation of joining within supulated time ther confirming it not joined, the same intermetion will be speech with MUR or kets for more consistent dissigning this form you areas with the university of a new concentration with the properties your college institute that may clash with the uncensity of a...

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

April 12,2019

To

Dr. Vasant Chabukswar Nowrosjee 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

2019 Original Mark-sheet copy will be accepted.Internet copy of Mark-sheet will not be accepted.

7 Submission of Performance Reports and Mark-sheets;

7 submission of 7 environments of B Sec. (B S (Int. M Sec. (Int. M Sec A) Exception of the semesters in one academic year) of B.Sc. /B.S./int. M.Sc./int. M.Sc. or M.Sc. course for previous academic year. ansue base of the short shall submit above (at 6a) referred documents altogether. Scholarship will not be processed in case any one of the aforementioned documents is not

submitted.

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 activitate 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 2016. This analogy can be followed by other batches for the release of the INSPIRE Scholarship.

a) 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.

8. 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 incuicate 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 Menter to carry out this. Consumables required to carry out project work, If recommended by the Menter, will be paid from the Mentership Grant, either to the Institute where project work is pursued or to the Scholar directly.

(8,1) For atudents doing a project in India: The expenses related to travel, accommodation and consumable expenses are reimbursed to the student within the memorahip grant. Please note that no food expenses are covered by this grant, as the students raceive 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 weaks. 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). (6.2) For students doing a project Abroad: Students at 4th or 5th year of the Scholarship may be allowed to carry our research project in any institute/ University/ Laboratory abroad by utilizing the Mentorship Grant available for five years on pro-rate 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 forwarded 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).

This is a computer generated latter, no signature is required



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 12th standard examination results (top 1%) of respective Boards or within eligible rank in chosen few competitive examinations such as JEE (main), JEE (advanced), NEET (AIPMT) and accurag admission in science stream (in any of science course or its combination out of 18 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.

 Confirmation of Scholarship Offer: All offers mode 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 18 nos. subject(s). The Offer would stand invalid in case this change or re-admission occurs in the next academic year and thereon, or subject(s) pursued is/ are beyond the 18 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 within India at any branch of State Bank of India, exclusively on Scholar's name. [opening of Joint A/c may be allowed only in case of Minor Scholars as under Guardian (U/G)] The scholars must submit the Accounts details in the specified format (through the online portial 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 this time period. After the due date, the names of such scholars shall be notified at the website: www.onlineinspire.gov.in as "Cancelled Scholarship" and no further communication shall 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 Accounts/ No Finils Accounts/ Joint Account/ Dormant Account and to take necessary actions within one month of such notification.

6. Payment and Continuation of Scholarship: The Scholarships 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
Fissi	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	
	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.
Third 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.Ant. 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.So. 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 his/her annual examinations (or 2 semesters) in B.Sc. General /B.S. /Int. M.Sc. /Int. M.Sc. examinations every academic year, failing which the scholarship for the next academic year will not be paid. If the grading to 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 his/har 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.

tailing when the antibal 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. 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 aforesaid eligibility 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 aforesaid eligibility

norm meneorieu at oblinit ou. 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 BSc 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 MSc level. If it is otherwise, the continuation of scholarship at the PG level stands cancelled automatically and no representations shall be entertained in this regard.

GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF SCIENCE & TECHNOLOGY Technology Bhavan, New Mehraull Road, New Deihi - 110018



Date: 23/06/2018

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

Dear Miss Naincy Shravan Jalan,

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 enrollment in B.Sc/Int. MSc. or Int. M.S. 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 30,000/- per annum, out of which Rs 60,000/- as scholarship @ Rs 5000 per month and Rs 20,000/- per year shall be retinauraed 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.3c. / 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, on 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 each transfer (Jandhan, 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:

i. Stage 1:

Submission of Account Details: 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 card or Aadhaar Enrolmant Silp, 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.

I. 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 366 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.

W. 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 0120-4676260 (Mon-Sat, 10AM to 5PM).

With best regards.

Ms. Temanna Arora Scientiat 'C' INSPIRE Programme Division

To, Miss Naincy Shravan Jalan C/o shravan Hawaklarpura Near Gujrati Bhawan Wardha - 442001 MAHARASHTRA

This is a computer generated latter, 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. <u>Nainy</u> <u>ShuavanKumay</u> <u>Jalan</u> son/daughter of <u>Shuavan Kumay</u> <u>Jalan</u> is an INSPIRE Scholar of <u>T.B. Suence</u> <u>college</u>...<u>INAMAHA</u>...(*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 h/s/her INSPIRE Scholarship may be Continued or Discontinued in the year $20\underline{14}$ to $20\underline{18}$.

It is also certified that the student is <u>NOT receiving</u> 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 of Reinstrar of the Institute or University) Place handha 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 001784

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

It is declared/ certified that Seat No. N051127

JALAN NAINCY SHRAVANKUMAR

Seat No. No. 127 Hr. Sec. School No. 07.01.003 - Date of Birth 21-09-1999 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 <u>http://www.inspire-dst.gov.in/SHE.html (Select Blank Format Option-Endorsement Certificate)</u> 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 <u>www.online-inspire.gov.in</u> and apply with required documents through <u>ONLINE MODE</u> 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.

Dividenal Seconcery, Maharashtra State Board of Secondary Education Natpur Divisional Board, NAGEO3,



National Centre for Microbial Resource

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

राष्ट्रीय कोशिका विज्ञान केंद्र । National Centre for Cell Science

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@nccs.res.in, praveen_rahi22@yahoo.co.in

> साई ट्रिनिटी कॉम्प्लेक्स, सुस रोड, पाषाण, पुणे–४११ ०२१. महाराष्ट्र, भारत. Sai Trinity Complex, Sus Road, Pashan, Pune- 411 021. Maharashtra, INDIA दुरभाष / Tel: +9120 25329000 ई-मेल / e-mail: mcc@nccs res in | वेष / Web: www.nccs res in

42 of 160.





SUMMER RESEARCH FELLOWSHIP PROGRAMME CERTIFICATE

This is to certify that Mr Kartik Shanshyam 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 Drogramme is jointly sponsored by IASc (Bengaluru), INSA (New Delhi) and NAST (Allahabad).

M-RIN. Will

Lace: Bengaluru Date: 02-07-2019

ESTO

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



Indian National Science Academy New Delhi



The ational Academy of Sciences, India Prayagraj

Contact Address: Indian Academy of Sciences

P B No 8005 C.V. Raman Avenue (near Mekhri Circle) Sadashivanagar P O Bengaluru 560 080

Telephone :

080-2266 1207 080-2266 1202 080-2266 1221 Fax : 080-2361 6094 Email : jointsrf@ias.ac.in Website : www.ias.ac.in 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



सेन्टर फॉर मेटिरियल्स फॉर इलेक्ट्रॉनिक्स टेक्नोलॉजी (सी-मेट)

(वैज्ञानिक संस्था, इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी मंत्रालय, भारत सरकार) पंचवटी, ऑफ डॉ. होमी भाभा मार्ग, पाषाण, 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. : +91-020-2589 8390, 2589 9273, 2589 8141

Tel.

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

: cmetp@cmet.gov.in E-mail

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

Date: 10/10/2017/1192

(1)

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 inprinciple 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,

+ Kaa

Dr. Bharat B Kale Director, C-MET Pune



45 of 160.



सेन्टर फॉर मेटिरियल्स फॉर इलेक्ट्रॉनिक्स टेक्नोलॉजी (सी-मेट)

(वैज्ञानिक संस्था, इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी मंत्रालय, भारत सरकार) पंचवटी, ऑफ डॉ. होमी भाभा मार्ग, पाषाण, 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.

05/07/2019

Dr. Sudhir S. Arbuj Guide C-MET, Pune



राष्ट्रीय कोशिका विज्ञान केन्द्र

National Centre For Cell Science

जैवप्रौद्योगिकी विभाग, भारत सरकार का स्वायत्त संस्थान (An Autonomous Institution of the Department of Biotechnology, Government of India)

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".

Mosaui (मोसमी गोसावी / Mosami Gosavi त. अधिकारी 'क' / T. Officer 'A' शैक्षिक कक्ष / Academics

ग कोशिका विज्ञान केंट 21141-5 75-81 Academic Cell

To,

Mr. Trupti Murkute, Summer Trainee-IAS

> एनसीसीएस कॉम्प्लेक्स, पो. बॅ. नं. ४०, गणेशखिंड पी. ओ., पुणे ४११ ००७. महाराष्ट्र, भारत NCCS Complex, P.B. No. 40, Ganeshkhind P. O., Pune - 411 007. Maharashtra, दूरभाष / Tel.: (020) 25708000 फैक्स / Fax : 91 (020) 25692259

> > ई मेल / E- mail.infonccs@nccs.res.in

वेबसाईट / Website : http://www.nccs.res.in

47 of 160.

Shiksha Mandal's Jankidevi Bajaj College of Science, Wardha

Department of Chemistry

To,

The Principal,

Jankidevi Bajaj College of Science, Wardha

Sir,

C.

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

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Internal Epbx : 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.m URL: http://disc.unipune.ac.m

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

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Department of Botany

Visits of staff & students to Vegetation fields, University

Departments, Research Centers, Industries, etc.

Sr.	Academic	Name of place visited	No. of	No. of
No.	Session		students	accompanie
				d teachers
1.	2017-18	Visit to CICR, Satpuda National Botanical Garden,	10	03
		Nagpur		
2.	2017-18	Sirkutni forest	13	01
3.	2017-18	Kodaikanal	34	03
4.	2018-19	Visit to Masod forest	21	04
5.	2018-19	Visit to Nursery, Pipri, Wardha	18	02
6.	2019-20	Dhaga Forest (Dist. Wardha)	08	01
7.	2019-20	Panchmari	45	03
8.	2021-22	Kalikappi Forest	17	04
9.	2021-22	Ridhora Dam	04	01

Photo Gallery :





Botanical Excursion to Kodaikanal





Visit to plant nursery, Vermicompost production unit, Mushroom production unit, Herbarium centre of Agriculture College, Pipri



Botanical excursion Tour to Pachmari, Madhya Pradesh



Collection of plants related with different families from pond site area, around the campus and nearby places of college





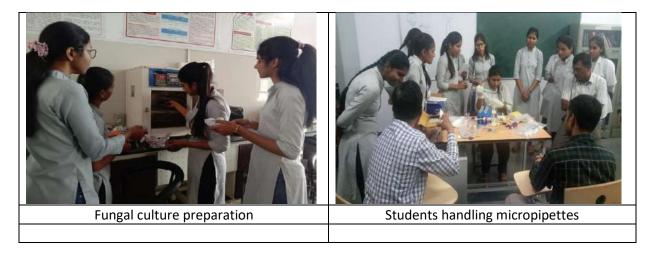
Visit to Mushroom production centre at MIDC, Chandrapur

Experimental Learning Photos





Photos of activities





ShikshaMandal's Bajaj College of Science, Wardha (Autonomous) Department of Biotechnology Field trip and industrial visit

Sr. No.	Photo	Names of In charge	Students participated	Places visited
		Year 2020-21		

1	Image: Constraint of the second of the se	Dr. Ulka Malode-Bidwai, Dr. Kunal A. Kale, Miss. Komal S. Dhumane Miss. Kushaboo Parimal	Selected Students from BSc Part III and Part -II	Haemoglobin Detection Camp for Rural Area women's at Khangoan Tal. Hinganghat
2		Dr. Ulka Malode-Bidwai, Dr. Kunal A. Kale, Miss. Komal S. Dhumane Miss. Kushaboo Parimal	Selected Students from BSc Part III and Part -II	Haemoglobin Detection Camp for Rural Area women's at Khangoan Tal. Hinganghat
3		Dr. Ulka Malode-Bidwai, Dr. Kunal A. Kale, Miss. Komal S. Dhumane Miss. Kushaboo Parimal	Selected Students from BSc Part III and Part -II	Haemoglobin Detection Camp for Rural Area Women's from Madani Tal. Seloo, Dist. Wardha
4		Dr. Ulka Malode-Bidwai, Dr. Kunal A. Kale, Miss. Komal S. Dhumane Miss. Kushaboo Parimal	Selected Students from BSc Part III and Part -II Year 2019-20	Haemoglobin Detection Camp for Rural Area Women's from Madani Tal. Seloo, Dist. Wardha

Dr. Ulka Malode-Bidwai, Dr. Kunal A. Kale, and DR. A.P.Rathi	Students from BSc Part III and Part -II	to Forensic lab, Institute of Science, Nagpur.
Dr. Ulka Malode-Bidwai, Dr. Kunal A. Kale, and DR. A.P.Rathi	Students from BSc Part III and Part -II	to Forensic Lab, Institute of Science, Nagpur.
Dr. Ulka Malode-Bidwai, Dr. Kunal A. Kale, and DR. A.P.Rathi	Students from BSc Part III and Part -II	Ankur seeds pvt.ltd., neri manapur
Dr. Ulka Malode-Bidwai, Dr. Kunal A. Kale, and DR. A.P.Rathi	Students from BSc Part III and Part -II	Ankur seeds pvt.ltd., neri manapur

Bajaj College of Science, Wardha

Department of Chemistry

An Educational visit to Bajaj Science Education Centre, Wardha

Date: 31st March 2022

Report

For getting innovative ideas of research and to enrich knowledge of students, one day educational visit to Bajaj Science Education Centre, Wardha was organized for P.G. students on 31st March 2022. 39 P.G. students and 4 staff members visited to following laboratories of Bajaj Science Education Centre, Wardha-

- 1. Chemistry laboratory
- 2. Computors and electronics laboratory
- 3. Biology laboratory
- 4. Physics laboratory
- 5. Maths laboratory

Initially, Miss Shikha Oza gave information about Bajaj Science Education Centre, Wardha in her speech. At Chemistry laboratory Miss. Shikha Oza, Miss. Pratiksha Upadhyay and their team organized Workshop on "Enchanting Experiments in Chemistry". Miss. Shikha Oza gave the demonstration of various experiments such as Blue bottle experiment, chemical writing pencil, rapid oxidation, making an instant colf pack and magic breath. Students also performed these various activities in workshop. In physics laboratory, demonstation about static electricity experiments was given.

In the last session of workshop P. G. Student proposed the vote of thanks. This educational visit enriched the knowledge of students about innovative ideas and enchanting experiments in science.



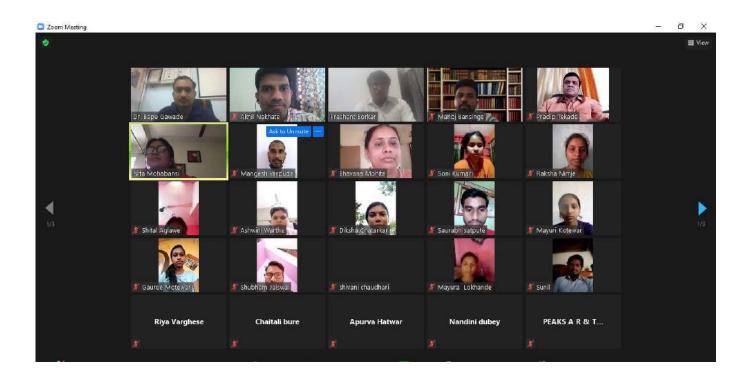


Bajaj College of Science, Wardha Department of Chemistry A virtual Industrial Visit at Cleanchem Date : 17th April, 2021 Report

To inculcate ideas of research and to enrich knowledge of students about industrial work to get an overview of Indian pharmaceutical/Chemical industry, a virtual industrial visit to Cleanchem Laboratories, Mumbai was organized for U.G and P.G. students on 17th April, 2021.

The resource person for a virtual industrial visit at Cleanchem was Dr. Bapu Gawade, Founder & Managing Director, Cleanchem Laboratories, Mumbai.

A virtual Industrial Visit at Cleanchem was conducted through zoom online platform and event details and link to join the workshop was communicated via Email & telegram.





Bajaj College of Science, Wardha

Department of Chemistry

An Industrial Visit to Bajaj Superpack India Ltd. MIDC, Hingna road, Nagpur

Date: 7th February, 2019

Report

To inculcate ideas of research and to enrich knowledge of students about industrial work for job placement after completion of education, one day educational tour to Bajaj Superpack India Ltd. MIDC, Hingna road, Nagpur was organized for P.G. students on Thursday, 7th February, 2019. Thirty six students along with four staff members visited to Bajaj Superpack India Ltd. MIDC, Hingna road, Nagpur.

Security instructor was delivered information regarding rules, regulation and safety aspect to the students and faculty. In Quality Control division Dr. Sudhir Bhoyar (R & D Head and manager) gave information about manufactured products and demonstrated various manufacture machines utilized for manufacturing different products of Plastics. He also gave knowledge about quality, infection and testing of raw materials and products.





Bajaj College of Science, Wardha Department of Chemistry An Industrial visit to Uttam Galva Metallics Limited, Wardha Date : 25th January, 2018

Report

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

Uttam Galva Metallics Ltd. Wardha is one of the largest manufacture of cold rolled steel and galvanized steel in India. In this industry we visited to Quality Control division. Security instructor Mr. Amitendra Dwivedi delivered information regarding rules, regulation and safety aspect to the students and faculty. They provided safety helmet and leather shoes to students and faculty.



Bajaj College of Science, Wardha (Autonomous)

Department of Physics

Educational Tours



Educational Tour to Raman Science Centre for BSc. Sem III students with the tour guide Dr. G. V. Lakhotiya on 27th September 2022



Educational Tour to Raman Science Centre for BSc. Sem III students with the tour guide Dr. M M Yerpude on 17th Jan 2020



Educational Tour to Bhopal for BSc. I,II, III students with the tour guide Prof. R. J. Jadhao and Dr. S. R. Tiple 22nd-26th Dec 2018



Educational Tour to Raman Science Centre for BSc. Sem III students with the tour guide Prof. R. J. Jadhao and Dr. S. R. Tiple on 17th Dec 2017



Educational Tour to Bhopal for BSc. Sem III students with the tour guide Prof. R G Jadhao Dr. S. R Tiple on 22nd-26th Dec 2018

Department of Zoology Field trip to NEERI 2017-18



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

Webinars, Laboratory experiments, Demonstration Experiments Exhibitions, Assignments, quizzes-2019-2022.

Sr.	Experiments performs	Year
<u>No.</u>	View Bajaj College of Science, Wardha, Maharashtra, Indla PJRP+4MJ, Jammalal Bajaj Marg, Civil Lines, Wardha, Maharashtra, Indla PJRP+4MJ, Jammalal Bajaj Marg, Civil Lines, Wardha, Maharashtra, Indla View Linz 200789887* Linz 20078922 20/07/22 04:08 FM	2021-22 Student performing Tissue Homogenization
	Bade Cloud Bajaj College of Science, Wardha, Maharashtra, India RJR7-4MJ, Jannaki Bajai Marg, Chil Lines, Wurdha, Maharashtra, India RJR7-4MJ, Jannaki Bajai MJ, Jannaki Bajai Marg, Chil Lines, Wurdha, Maharashtra, India RJR7-4MJ, Jannaki Bajai Marg, Chil Lines, Wurdha, Maharashtra, India RJR7-4MJ, Jannaki Bajai Marg, Chil Lines, Wurdha, Maharashtra, India RJR7-4MJ, Jannaki Bajai MJ,	Student performing tissue culture media and sterilization of glassware's
		Student performing Gram staining of microbial culture
l		

Laboratory experiments

Student use cold storage (-20 ⁰ C)
Students performing Sterilization of media in Autoclave.
Students performing experiments with incubator.
Students performing biochemical experiments with micropipettes and colorimeter

Student performing preparation of microbial media.
Student performing Blood detection experiment.
2018-19 Student performing Paper chromatography.
Inoculation of microbial culture to nutrient media
2017-18

Students use biosafety cabinet.
Student performing sterilization and fumigation of Plant tissue culture laboratory.

Experiment Demonstration

Sr.	Experiments performed	Year
<u>No.</u>		2021-22 B.Sc. Part III Students demonstrated Isolation of DNA from plant tissu for 11 th and 12 th standard studen during "Biotech Open day-2021-22"

	B.Sc. Part II and part -I Students demonstrated media preparation and cultivation of microbes from soil to 11 th and 12 th standard student during "Biotech Open day- 2021-22".
2	B.Sc. Part II Students demonstrated working of spectrophotometer to ZP teachers during "workshop for ZP teachers 2021-22".
	B.Sc. Part III Students demonstrated working of Thin Layer chromatography to ZP teachers during "workshop for ZP teachers 2021-22".
	B.Sc. Part III Students demonstrated ELISA Experiment to ZP teachers during "workshop for ZP teachers 2021-22". 2019-20

B.Sc. Part III and II Students demonstrated Blood group detection experiments to 11 th and 12 th standard student during "Biotechnology Open-Day" 2020-19 ".
B.Sc. Part II Students demonstrated working of water bath to one of parent visited "Biotechnology Open-Day" 2020-19 ".
Dr. Kunal A. Kale, faculty Department of Biotechnology demonstrated bioinformatics tools during One day workshop on "Basic Techniques in Bioinformatics"
2017-18



Exhibitions

Sr. No.	Photo	Year-2021-22
1		Title of exhibition
		Vaccine Awareness Poster Exhibition

Image: State Stat	"Biotechnology Open Day" Exhibition about Scientific experiment in Biotechnology for Standard XI and XII students.
	"Workshop for ZP Teacher on Basic Techniques in Biotechnology Field" Exhibition about Scientific experiment in Biotechnology for ZP teachers.
	2019-20 "Biotechnology Open Day" Exhibition about Scientific experiment in Biotechnology for Standard XI and XII students.

Field trip and industrial visit

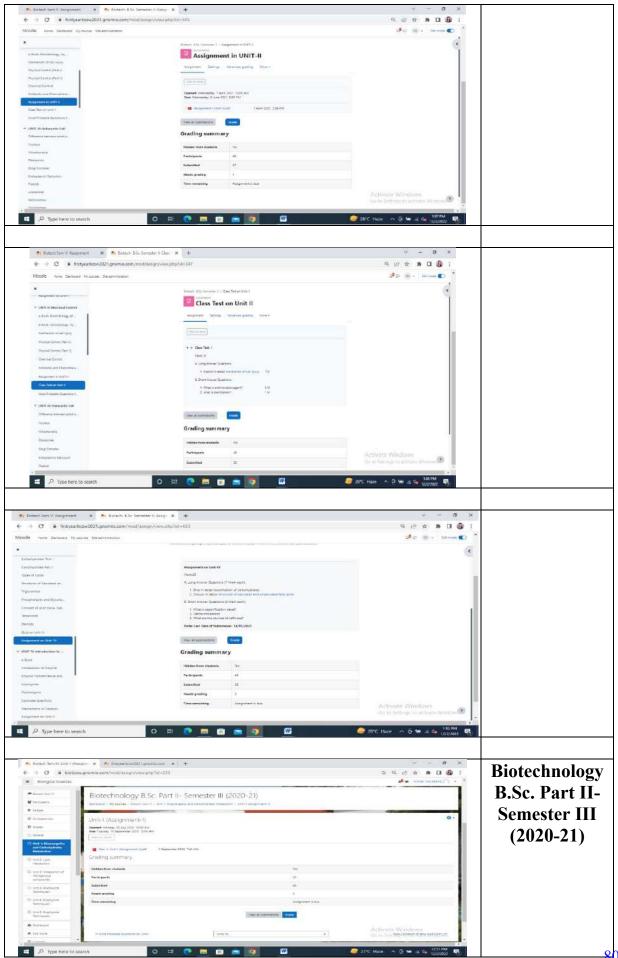
Sr.	Photo	Names of	Students	Places visit
No.		In charge	participated	
			Year 2020-2	1
1		Dr. Ulka	Selected	Haemogloł
	Et a serie of the	Malode-	Students	Detection
		Bidwai,	from BSc	Camp
		Dr. Kunal	Part III and	Rural A
		A. Kale,	Part –II	women's
		Miss.		Khangoan
		Komal S.		Hingangha
		Dhumane		
		Miss.		
	新鮮語	Kushaboo		
		Parimal		

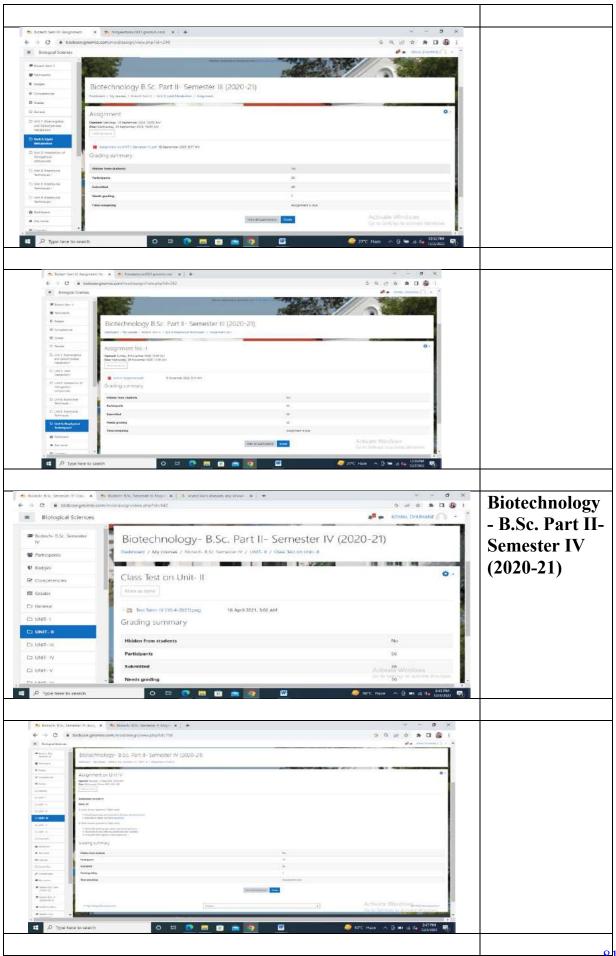
2		Dr. Ulka Malode- Bidwai, Dr. Kunal A. Kale, Miss. Komal S. Dhumane Miss. Kushaboo Parimal	Selected Students from BSc Part III and Part –II	Haemoglobin Detection Camp for Rural Area women's at Khangoan Tal. Hinganghat
3		Dr. Ulka Malode- Bidwai, Dr. Kunal A. Kale, Miss. Komal S. Dhumane Miss. Kushaboo Parimal	Selected Students from BSc Part III and Part –II	Haemoglobin Detection Camp for Rural Area Women's from Madani Tal. Seloo, Dist. Wardha
4		Dr. Ulka Malode- Bidwai, Dr. Kunal A. Kale, Miss. Komal S. Dhumane Miss. Kushaboo Parimal	Selected Students from BSc Part III and Part –II	Haemoglobin Detection Camp for Rural Area Women's from Madani Tal. Seloo, Dist. Wardha
		Dr. Ulka	Year 2019-2 Students	0 to Forensic
	· LASSER BARL	Malode-	from BSc	lab, Institute
	ANAP INTERNAL PROVIDENCE	Bidwai, Dr. Kunal	Part III and Part –II	of Science
		Dr. Kunal A. Kale, and DR. A.P.Rathi	rart –11	Science, Nagpur.

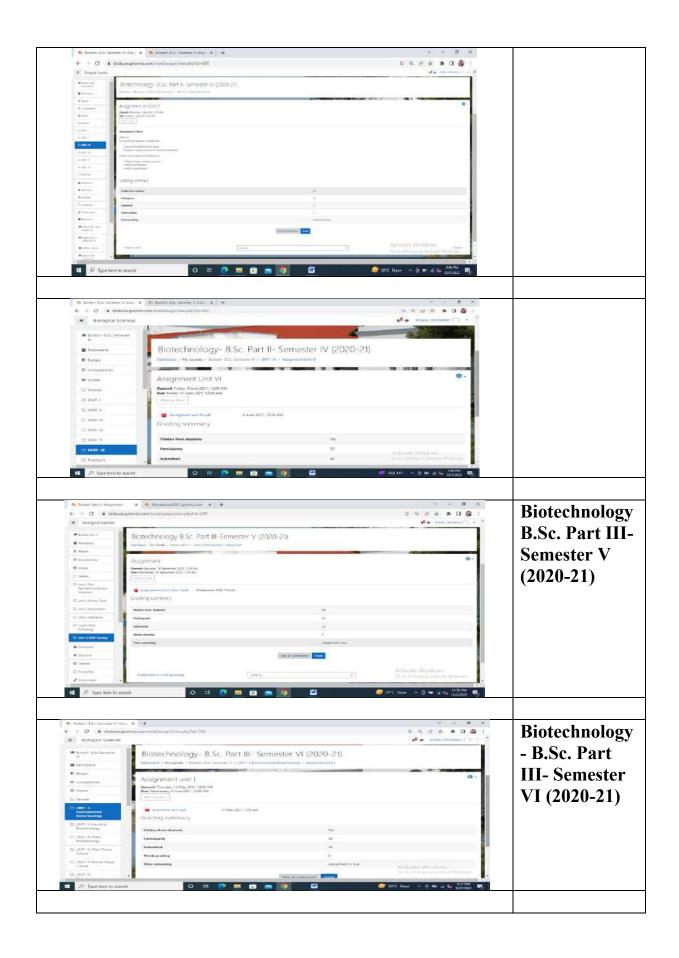
Dr. Ulka Malode- Bidwai, Dr. Kunal A. Kale, and DR. A.P.Rathi	Students from BSc Part III and Part –II	to Fore Lab, Insti of Science, Nagpur.
Dr. Ulka Malode- Bidwai, Dr. Kunal A. Kale, and DR. A.P.Rathi	Students from BSc Part III and Part –II	Ankur seec pvt.ltd., ne manapur
Dr. Ulka Malode- Bidwai, Dr. Kunal A. Kale, and DR. A.P.Rathi	Students from BSc Part III and Part –II	Ankur seec pvt.ltd., ne manapur

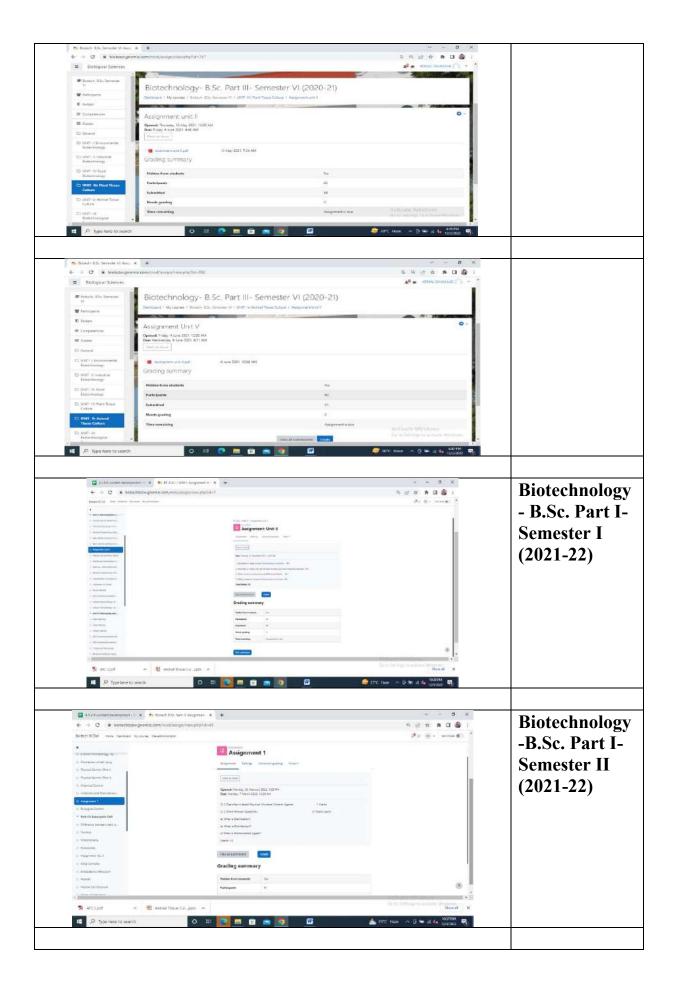
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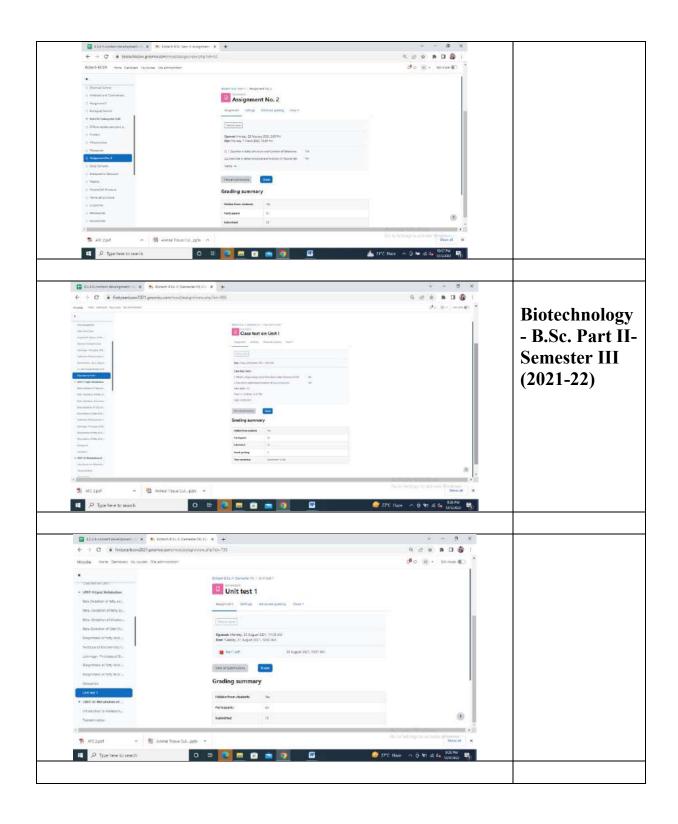
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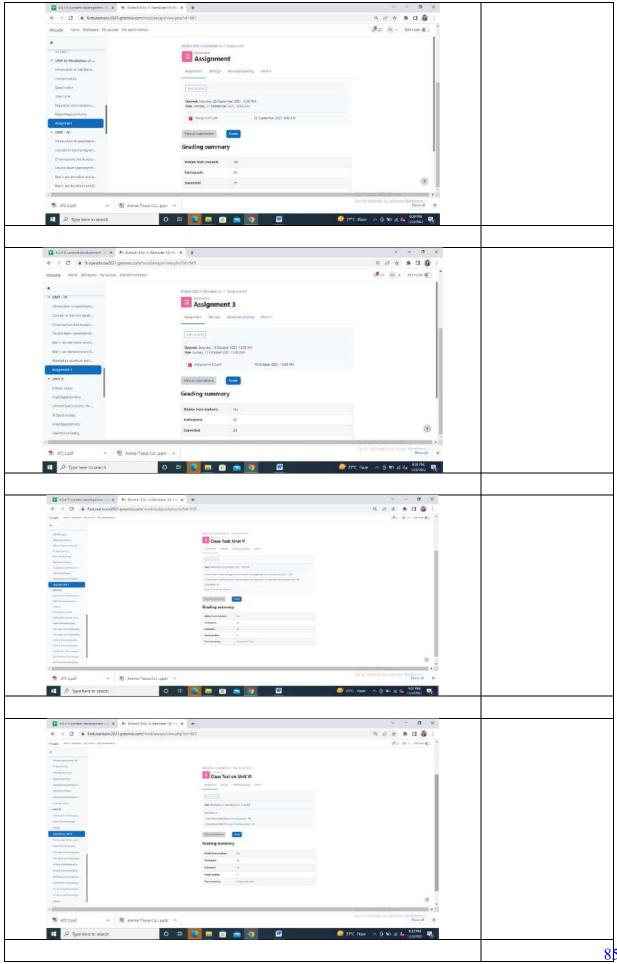


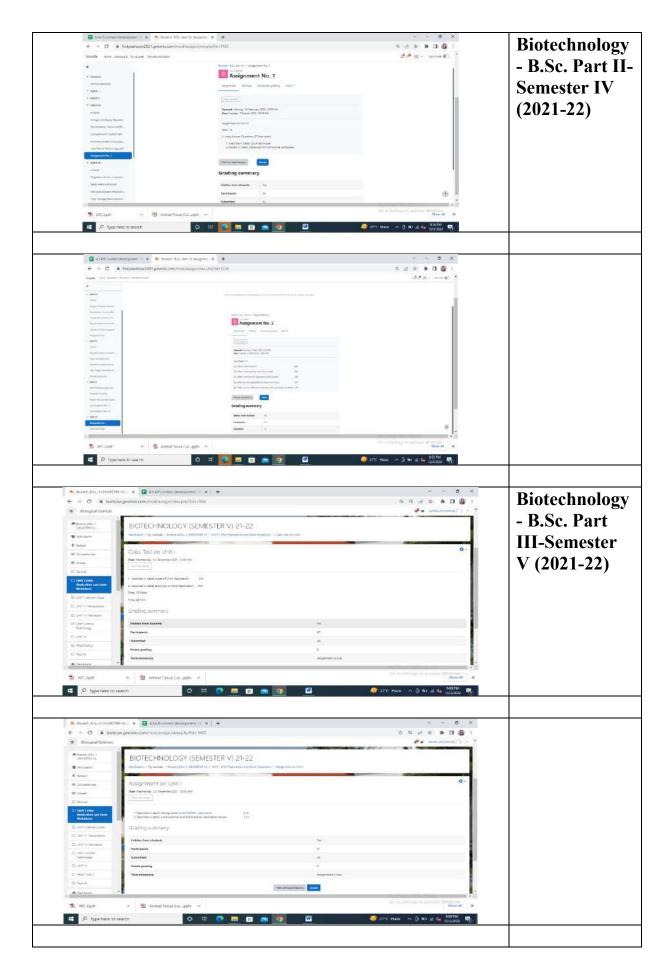


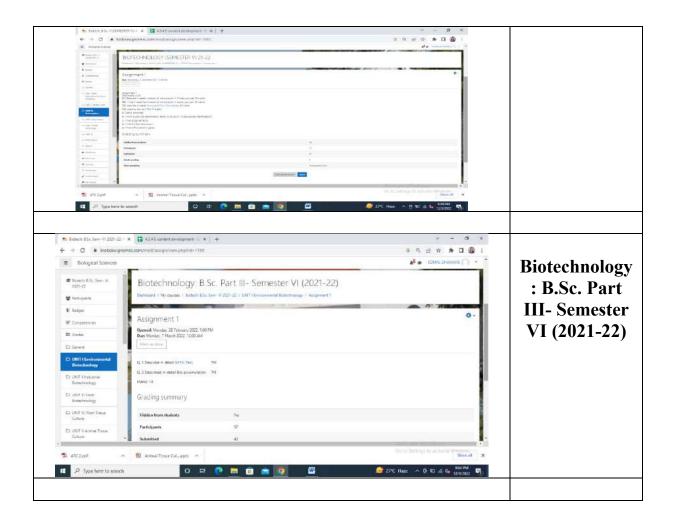








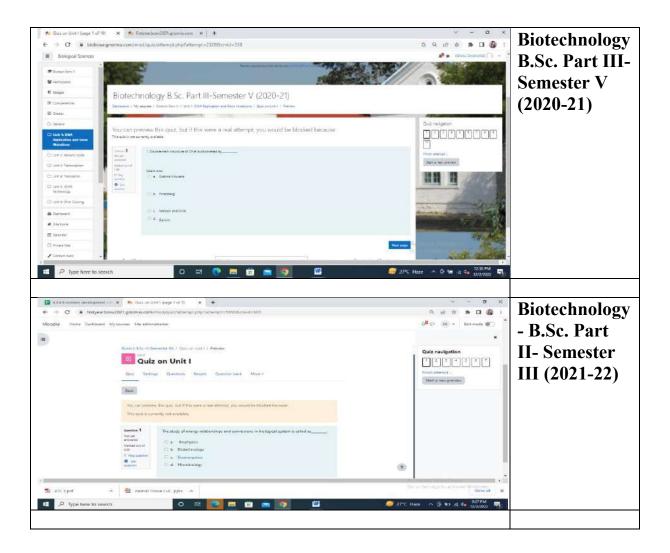




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Webinars/Workshops/Seminars/ Guest Lectures by Department of Chemistry

2017-18

1. Guest lectures by Dr. R. M. Jugade, P. G. Department of Chemistry, R.T.M. N.U,. Nagpur on 17th Feb. 2018. Topic- Atomic Spectroscopy.



2. Guest lectures by Dr. Vijay Tangade, P. G. Department of Chemistry, R.T.M. N.U. Nagpur on 17th Feb. 2018. Topic- X ray diffraction, electron diffraction & Neutron diffraction.





3. Workshop on "Massive Open Online courses (MOOC) and Moodle" for P. G. students and staff on 12th October 2018 by Prof. M.D. Bansinge.



2019-2020

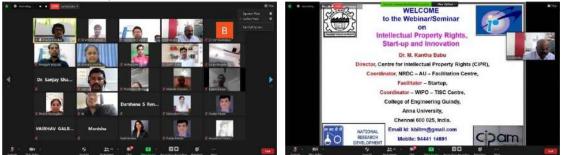
4. Two days workshop on "Scientific Writings: Beginner's approach" was organised on 13th & 14th Sept. 2019 in which 77 PG students from Chemistry, Botany, Zoology and Microbiology department had participated.



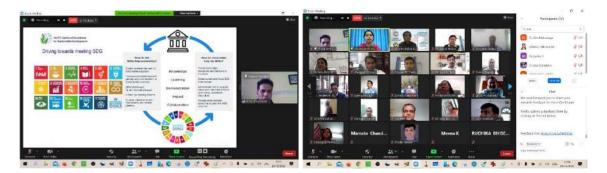
5. Online Faculty Development Program (FDP) in collaboration with Spoken Tutorial of IIT Bombay during the Pandemic situation of Covid-19 on 'Jmol Application' from 8th to 14th May 2020.

2020-2021

6. One Day Online National Workshop on "Intellectual Property Rights (IPR) and Innovations" organized in association with IIC and Research Promotion Committee on 19th December, 2020.



7. One Day National Webinar on "Green Audit for Educational Institutes" was organized in association with IIC on 23rd December, 2020.



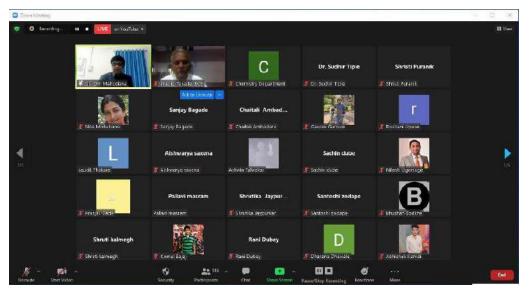
8. National webinar was organized in association with IIC on "Overview of Indian Pharmaceutical / Chemical Industry & A Virtual Industrial Visit at Cleanchem" (Resource

person: Dr. Bapu Gawade, Founder & Managing Director of cleanchem Laboratory, Mumbai) on 17th April 2021.

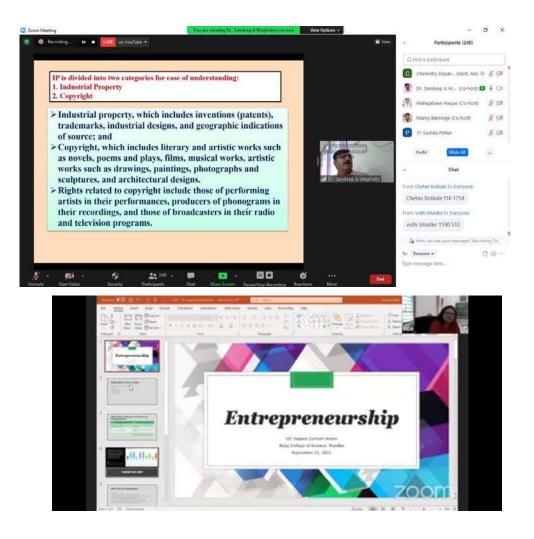


2021-22

 One day webinar on "Motivational talk by Successful Entrepreneur" (Resource person: Mr. Arun Waze, Founder Chairman, Anil Cottage industry, Wardha) was organised in association with IIC to celebrate "World Entrepreneurs' Day" on 23rd August 2021.



 To inculcate knowledge about Starts-up, IPR and Entrepreneurship, Impact Lecture Series-Session on "Intellectual Property Rights (IPR) and Entrepreneurship" was organized in association with IIC on 22nd September 2021.



11. "Workshop on Fire safety" was organised, where team of Fire Brigade, Nagar Parishad, Wardha provided Hands-on-training on fire extinguisher, minimization of fire accidents, career opportunities in fire science on 12th March 2022.



12. One Day Online National Workshop on topic "Intellectual Property Rights (IPR), IP Management and Research Ethics" was jointly organized by Department of Chemistry and MoE's Institution's Innovation Council (IIC) of the Bajaj College of Science, Wardha on Monday 29th August 2022 from 11:00 am to 12:30 pm. Dr. Manoj Gawande (FICS, FMASc, FRSC (UK), Doc (Habil)), Associate Professor, Department of Industrial and of 160. Engineering Chemistry, Institute of Chemical Technology Mumbai-Marathwada Campus, Jalna (Maharashtra) was the distinguished resource person.



13. MoE's Institution's Innovation Council (IIC) and Department of Chemistry of the Bajaj College of Science, Wardha jointly organized a lecture on "World Intellectual Property Day" on 08th September 2022 at11:00 am.



14. Department of Chemistry and Rich Club, Bajaj College of Science, Wardha has organized college level seminar competition for UG and PG students on Thursday, 22nd Sept. 2022.



BAJAJ COLLEGE OF SCIENCE , WARDHA (AUTONOMOUS)

DEPARTMENT OF LANGUAGES

B.Sc. I, SEM I & SEM II

DEPARTMENTAL ACTIVITIES, GROUP PROJECT & QUIZZES

SESSION 2017-18

DOCUMENTARY PREPARATION ON MATA JANKIDEVI BAJAJ ON HER 125 TH BIRTH ANNIVERSARY



(GROUP PROJECT)



INTERVIEWS OF EMINENT PERSONALITIES BY STUDENTS





SESSION 2019-20

MOCK EVENT MANAGEMENT COMPETITION & QUIZZES



Shiksha Mandal's

Bajaj College of Science, Wardha Department of Mathematics Departmental Activity for the Session 2021-22

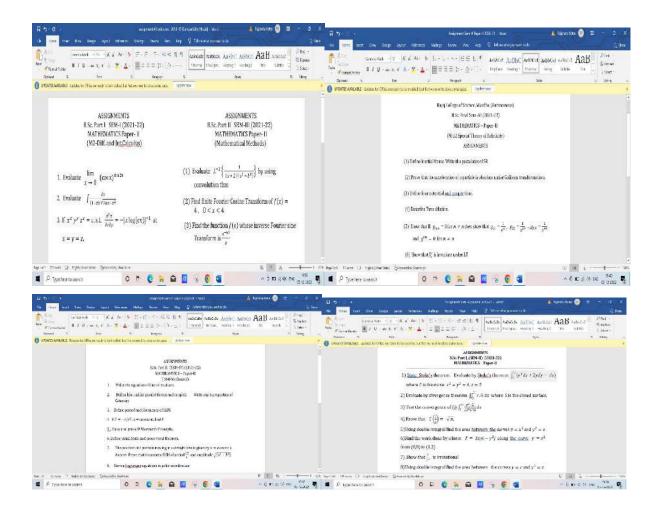
National Mathematics Day celebration



Guest Lecture by Dr. SanjaySarwe



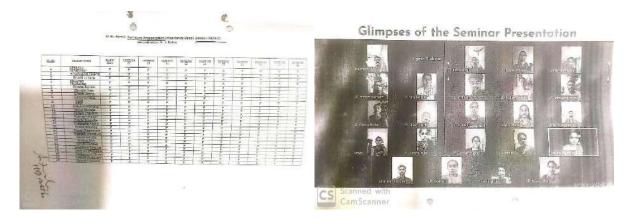
Assignment given to Students



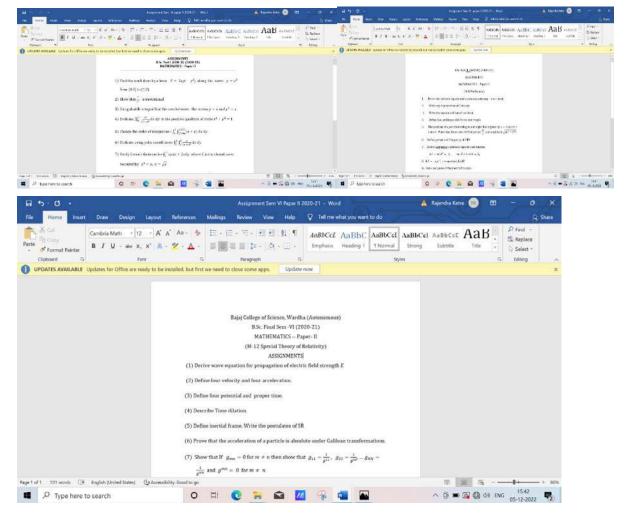
Shiksha Mandal's

Bajaj College of Science, Wardha Department of Mathematics Departmental Activity for the Session 2020-21

Online Seminar Presentation on zoom platform



Assignments given to students(online)



Bajaj College of Science, Wardha Department of Mathematics Departmental Activity for the Session 2019-20

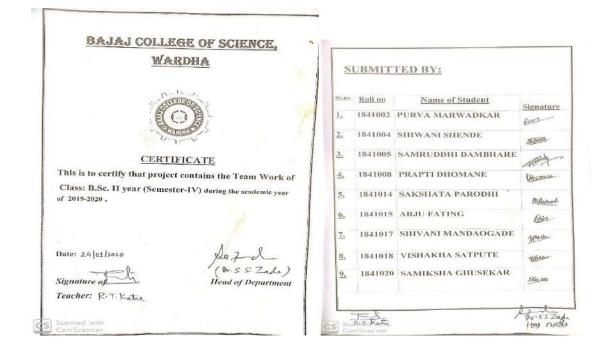
Assignments submissionby students

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2	1831002	PURVA RAJE NDRA MARWADKAR	TEMALE	0	12		2		SHIVANI HARISHWAR RAUT	FEMALE	VV
3	1831003	MANAV JITENDRA BHARDWAI	MALE				2	1831103	KAUSTUBH HARISHCHANDRA KARMORE	MALE	
4	1831004	SHEVANE RAME SHWARRAO SHENDE	FEMALE	1	V		2		RUTIK PRABHAKRARAO PATHADE	MALE	
5	1831005	SAMRUDDHI ANILRAO DAMBHARE	FEMALE	1	14	-	4	1831105		FEMALE	VV
6	1831005	SAUBABH NARESHRAO DHOTE	MALE			_	5	1831106	RUTUJA SOPANRAO INGOLE	FEMALE	
7	1831007	VISHAL DNYANESHWAR DAF	MALE				b	1831107	JAGRUTI PRAFULIRAO INGOLE	-	VV
8	1831008	PRAPTI RAMESH DHOMANE	FEMALE	L	L	-	7	1831108	ASHWINI MOTIRAM VAIDYA	FEMALE	
9	1831009	NILESH NAMDEORAO BURADKAR	MALE	1	V		8	1831109	KSHITU RATNAKAR MOON	FEMALE	
0	1831011	GAURAV SUDHIRRAD TAYWADE	MALE				9	1831110	TEJAS PANJABRAO WAWARE	MALE	
1	1831013	RUTUJA GANESH MAHAKALKAR	FEMALE			. T	10	1831113	VAISHNAVI DADARAO LADE	FEMALE	VV
2	1831014	SAKSHATA MANIKRAO PARODHI V	FEMALE	V	L		11	1831114	ACHAL MORESHWAR DARNE	FEMALE	VIV
3	1831015	ARJU SUBHASH FATING	FEMALE	2	V	-	12	1831116	NIKHITA BABARAO DANDEKAR	FEMALE	11
4	1831017	SHIVANI ARUN MANDAVGADE	FEMALE	V	V						VVV.
5	1831018	VISHAKHA PHAMODRAO SATPUTE 🗸 🗸	FEMALE	L	L	-	13	1831117	KOMAL AJAY DHANWE	FEMALE	UV
6	1831020	SAMIKSHA RAYINDRA GHUSEKAR 🛛 🗸 🗸	FEMALE	V	V	-	14	1831118	RITIKA MUKUNDRAO BAMNOTE	FEMALE	
2		Sa		-	-		15	1831119	RUSHIKESH VILAS HIWANJ	MALE	

Students' seminar competition



Student's Project



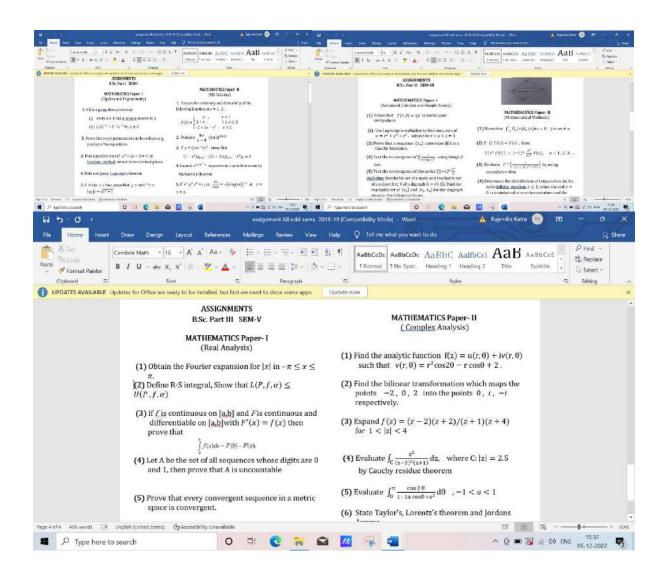
Student Participation

Corganized under the	S Programme
Funded by: National Boa	ard for Higher Mathematics
	titute of Technology, Nagpu: to 01-02-2020
Participat	ion Certificate
This is Mr./Ms Mrunal of Bajaj. College . of .	to certify that Pravin Gandole Science., . Wardha
participated in Mini-M	athematics Training and
	me during January 27 to
February 01. 2020.	
Sendor	Humuni
Jyoti Singh	Humunnan S. Kumaresan
Sendon	S. Kumaresan Programme Director

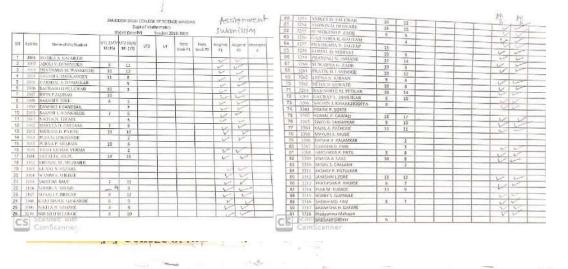
Shiksha Mandal's

Bajaj College of Science, Wardha Department of Mathematics Departmental Activity for the Session 2018-19

Assignments given to students



Assignments submission by students



		Dept BBC-I (Sem I)	DITIO	Mathematics Session 2018-2019				-			-	-	-	sig				BSC-II	EBE OF SCHINCE WAR Authematics Secsion 2018-2019				-			idemi'ssi		শ		
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Shiksha Mandal's Bajaj College of Science, Wardha Department of Mathematics Departmental Activity for the Session 2017-18

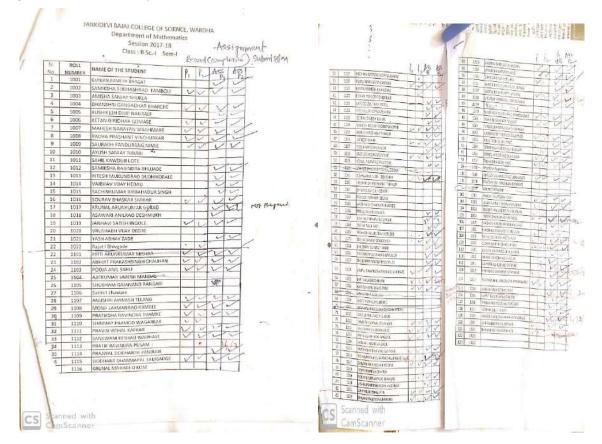
Seminar competition



Guest Lectures



Assignments submission by students





National Science Day Celebration

Department of Physics in association with Institution's Innovation Council

Organizing Webinar on

Raman Techniques in Science and Technology

Date: 28th February, 2022

Time: 11:00 am



Dr. Mangesh Diware

Research Associate, Department of Physics and Astronomy Seoul National University, Seoul, South Korea

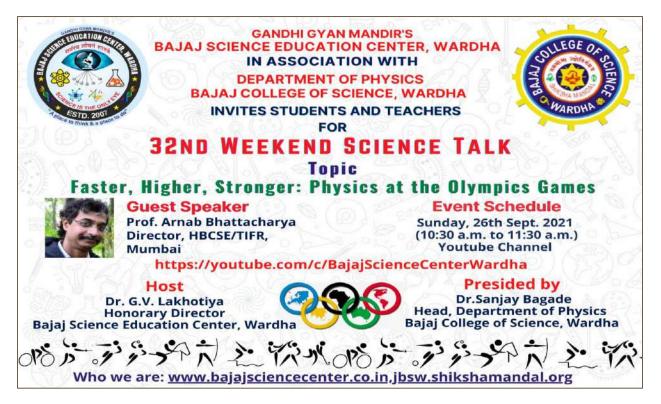
Free Registration



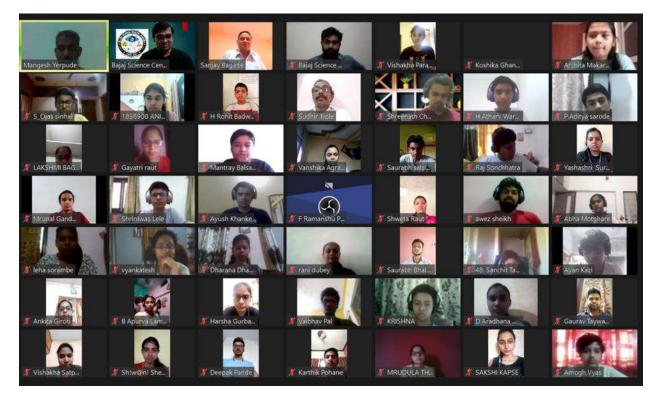
Registration Link: https://forms.gle/kDV7AofMkzQtHa2H9



Virtual Science Talk on National Science Day Celebration on 28th Feb 2022



Virtual Science Talk by Prof. Arnab Bhattacharya on 26th Sept 2021





GANDHI GYAN MANDIR'S BAJAJ SCIENCE CENTER, WARDHA IN ASSOCIATION WITH SHIKSHA MANDAL'S BAJAJ COLLEGE OF SCIENCE INVITES STUDENTS AND TEACHERS



26th Weekend Science Story TOPIC: STORY OF PHOTOELECTRIC EFFECT

FOR

100 years of Nobel Prize to Albert Einstein

Guest Speaker

SHRI JITENDER SINGH Scientist & Co-ordinator (Anveshika)

Event Schedule

Sunday, 23rd May 2021 (10:30 a.m. to 11:30 a.m.)

Join Virtually on Youtube or Facebook Subscribe the channel for prior notification

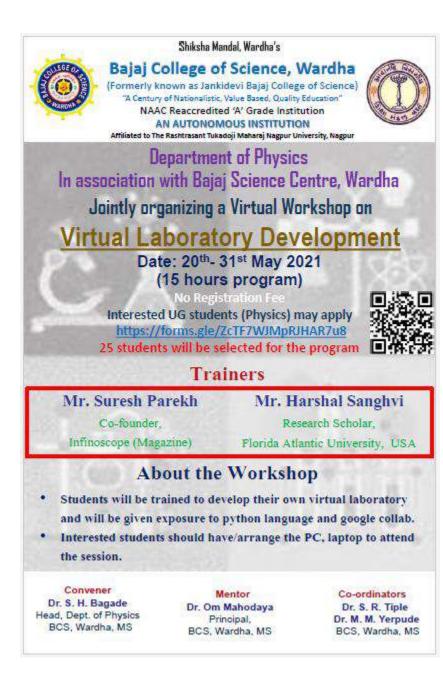
https://www.youtube.com/c/BajajScienceCenterWardha https://www.facebook.com/BSCWARDHA

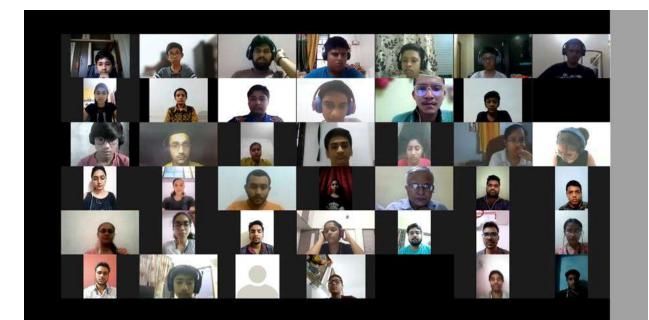


Host Dr. Govinda Lakhotiya Director Bajaj Science Center, Wardha Presided By Dr. Om Mahodaya Principal Bajaj College of Science, Wardha

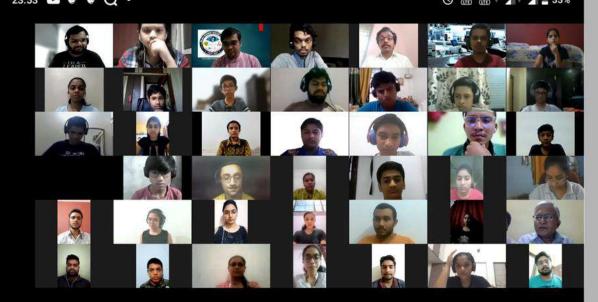


Virtual Talk on Photoelectric effect by Shri Jitendra Singh on 23rd May 2021









Department of Physics organized workshop on Virtual Laboratory Development from 20 to 31st May 2021



Virtual XRD National workshop on 14th july 2021



Participants interacting during Virtual XRD National workshop on 14th july 2021



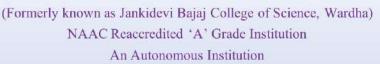
Talk by Dr. Jim Cybulski on 25th July 2021





Shiksha Mandal's

Bajaj College of Science, Wardha



Department of Physics

Organizing Skill Oriented Program

on

"Understanding Physics through Geogebra"

Date: 9th October, 2021

Time: 10:00 am to 12:30 pm

Free Registration Link for Registration: https://forms.gle/EtFfCiMLs92DG7cC9

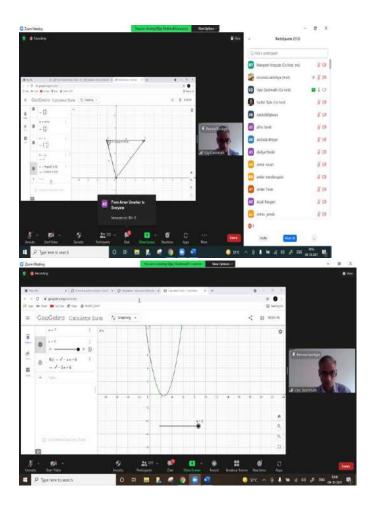
Resource Person Dr. Vijay Deshmukh

Associate Professor Department of Physics, Bajaj Institute of Technology, Wardha.

Co-ordinator Dr. M. M. Yerpude Assistant Professor BCS, Wardha, MS.

Head of the Department Dr. S. H. Bagade Associate Professor BCS, Wardha, MS.





Talk by Dr. Vijay Deshmukh on 09th October 2021



About the College: http://jbsw.shikshamandal.org Contact us: +91 9766499841, iic.bcsw@gmail.com

Webinar on 05th of October 2021by Department of Physics



Live Demonstration Workshop by Mr. Amit Bajpai from Shiksha Sopan IIT Kanpur on Heat: 20th JANUARY 2020



Project Mentoring of NIUS Programme by HBCSE, Mumbai of two students from Orissa and Kerala 20th December 2019



Astro Club, Department of Physics organized guest lecture by Dr. Amruta Jaodand, University of Amsterdam, Netherland and Judge of scientist panel at NASA, California, USA on 20th December 2019



Astro Club, Department of physics, foundation Day celebrated on 12 August 2018

TELESCOPE MAKING WORKSHOP



Telescope making workshop organized by department of physics under the guidance of Dr. S. R. Tiple 23/10/2017 to 13/11/2017



Departmental Felicitation of meritorious students of Physics on 12/10/2017



Ahimsa Rally organized by Department of Physics on 2nd October 2017



Astro Club, Department of Physics organized cleanliness drive on 14/10/2017



Interaction of students of Astro Club, Department of Physics with Shri. Rahulji Bajaj, chairman, Bajaj Auto, Pune on 22/09/2017



Astro Club Foundation program 12th August 2017 under teacher incharge Dr. S. R. Tiple

"Shani maage lagla" drama and sky observation at NSS Camp 2018



Shani Mage Lagla drama(Eradication of superstitions) and Sky Observations at NSS Camp 2019 by Department of Physics

132 of 160.



Guest Session by Inhouse Faculty Dr Parvez Saudagar



Astro Club, Department of Physics Organized social awareness by delivering talk and sky observations program for Villagers by Dr. S. R. Tiple

Sky observation and Lecture at Bajaj Science Centre, Wardha



Guest lecture by Dr. S. R. Tiple Department of Physics at Bajaj Science Centre followed by Sky observations

136 of 160.

Workshop, Seminars, Lecture and Laboratory experiment

Zoology Department



Workshop and Lecture 2018 – 19

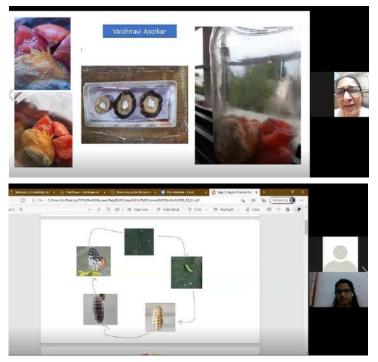
Under the banner of Edu-Bridge Programme. Department of Zoology in association with NCCS, Pune organized guest lecture of Dr. Abhitabha Mujumdar (Scientist D) NCCS, Pune on December 21, 2018.



Online Workshop and Lecture

2021-22

three day online workshop conducted by Ms. Kiran Yadav and Ms. Batul Pipewala from CUBE, HBCSE, TIFR.



Laboratory experiments





Biogenius state level competition organized every year



On the occasion of science day Quiz competition was organized on February 2020





On the occasion of science day Model competition

has been organized on February 2020



Laboratory experiments Zoology Department





Department of Botany

Students Seminars and Projects

Seminars

M.Sc. Sem. II (2019-20)

S.N.	Name of students	Seminar Topic
01	Mr. Akshay Sanjay Uike	CAM pathway
02	Ku. Ankita Suresh Raut	Photoperiodism
03	Ku. Apurva Gajanan Auzekar	Phytohormones
04	Ku. Ashvini Kishor Patar	Root apical meristem
05	Ku. Darshana Sudhakar Rendhe	Phyllotaxy
06	Ku. Darshana Vinod Sahare	Shoot apical meristem
07	Ku. Diksha Ravindra Burbure	Pollination
08	Mr. Lalit Moreshwar Maske	Herbal preparations
09	Ku. Leena Dilip Harde	DNA and its type
10	Mr. Mohan Tukaram Kapse	Ethnobotany
11	Ku. Monali Marotrao Bhuyar	Organization of embryosac
12	Ku. Nikita Rajesh Khare	Florigen concept
13	Ku. Pratiksha Arvind Getme	Protein metabolism
14	Ku. Pratiksha Vilas Mahajan	ICBN
15	Ku. Priti Raju Borkar	Withania somnifera
16	Ku. Priya Ramdas Deogade	Abiotic stress
17	Ku. Priyanka Ashok Khairkar	Evolution & types of placentation
18	Ku. Rutuja Girpunje	Seed dormancy
19	Ku. Shivani Marotrao Mandawkar	Tropism
20	Ku. Shruti Bandu Lokhande	Botanical gardens
21	Ku. Snehal Vikas Kale	Endosperm development

M.Sc. Sem. IV (2019-20)

S.N.	Name of students	Seminar Topic
01	Mr. Anup G. Mate	Cell cycle
02	Ku. Gayatri S. Bhabutkar	Transcription in
03	Ku. Hemlata P. Wanjari	Translation in prokaryotes & eukaryotes
04	Ku. Jyoti H Kharkate	Rebosomes
05	Ku Manija D. Tadas	Genetic engineering
06	Ku. Nisha R. Koychade	DNA system
07	Ku. Punam V. Andankar	Somatic hybridization
08	Ku Punam S. Jadho	Tissue culture scope and objective
37		

09	Ku Pranjali G. Deshattiwar	Transgenic methods to introduce genes in plants
10	Ku. Pooja S. Irdande	PCR
11	Ku. Pooja Gawhankar	Protoplast isolation culture
12	Ku. Rashmi I. Chandankhede	Callus induction & cell suspension
13	Ku. Renuka P. Mankar	Agrobacterium genetic engineering
14	Ku. Rajda Pathan	DNA libraries
15	Ku. Sayali Jagtap	Protein sorting

17	Ku. Shrutika R. Sable	RNA splicing
18	Ku.Snehal A .Sapate	Electrophoresis
19	Ku. Snehal P. Amru	FISH & GISH
20	Ku. Swateja S. Sute	Confocal microscopy
21	Ku. Tejaswini V Marwade	Introns & significance
22	Ku. Vishakha V. Wake	Beverages
16	Mr. Shrikant V. Rathod	Types of DNA damage

S.N.	Name of students	Seminar Topic
1	Ankita Baisware	Koch's Postulates
2	Akanksha Agnihotri	Cytology of bryophyte
3	Arpita Dhakare	Geological time scale
4	Asmita Badale	C-value paradox
5	Chetan Bahurupi	Mycorrhiza: Type and significance in agriculture and forestry
6	Hemchandra Gupta	Evolution of stele
7	Kajal Tembhurne	Glossopteridales
8	Manasi Kolhe	Hardy - Weinberg Equilibrium
9	Mrunal Bandwal	Karyokinensis
10	Neha Betal	Calamitales
11	Pooja Shambharkar	Gnetales
12	Pratik Burange	Role of mutation in crop improvement
13	Pratiksha Mamulkar	Making different solutions
14	Preeti Lohakare	Reactive 32 dyes
15	Priyanka Awchate	Types of Chromatography and their applications
16	Santoshi Zodape	Tissue preparation
17	Shital Kodape	Role of Lichen in biomonitoring
18	Shital Mankar	Smear and Squash techniques
19	Shivani Dhanule	Medullosaceae
20	Shraddha Ambarwele	Multigene families
21	Swapnil Dhokpande	Anthocerotales
22	Utkarsha Chaudhari	Embryogeny and phylogeny in Coniferales
23	Vaishnavi Dongre	PCR based oligonucleotide mutagenesis
24	Vishudha Alone	Paraffin infiltration

M.Sc. Sem. II (2020-21)

S.N.	Name of students	Seminar Topic
01	Ankita Baisware	CAM pathway
02	Arpita Dhakare	Photoperiodism
03	Asmita Badale	Phytohormones
04	Chetan Bahurupi	Root apical meristem
05	Kajal Tembhurne	Phyllotaxy

06	Manasi Kolhe	Shoot apical meristem
07	Mrunal Bandwal	Pollination
08	Neha Betal	Herbal preparations
09	Pooja Shambharkar	DNA and its type
10	Pratik Burange	Ethnobotany
11	Pratiksha Mamulkar	Membrane transport
12	Preeti Lohakare	Florigen concept
13	Priyanka Awchate	Protein metabolism
14	Santoshi Zodape	ICBN
15	Shital Kodape	Withania somnifera
16	Shital Mankar	Abiotic stress
17	Shivani Dhanule	Evolution & types of placentation
18	Shraddha Ambarwele	Seed dormancy
19	Swapnil Dhokpande	Tropism
20	Utkarsha Chaudhari	Maintaining laboratory record
21	Vishudha Alone	Endosperm development
22	Akanksha Agnihotri	Glycolysis
23	Hemchandra Gupta	Fluid Mosaic Model
24	Vaishnavi Dongre	DNA damage and repair

M.Sc. Sem. III 2020-21

S.N.	Name of students	Seminar Topic
1	Akshay Uike	Climax concept
2	Ankita Raut	Resistance and resilience
3	Apurva Auzekar	Cultivation of Mushroom
4	Ashvini Patar	Indian system of medicine
5	Darshana Rendhe	Asteraceae
6	Darshana Sahare	Liliaceae
7	Diksha Burbure	Hotspots and hottest hotspots
8	Lalit Maske	Vermicompost
9	Leena Harde	Organogenesis
10	Mohan Kapse	cDNA
11	Monali Bhuyar	Rhizosphere
12	Nikita Khare	Vectors for prokaryotes
13	Pratiksha Getme	gDNA
14	Pratiksha Mahajan	Vectors for eukaryotes
15	Priti Borkar	Ectotrophic and endotrophic mycorhizae
16	Priya Deogade	Dermatophytic fungi
17	Priyanka Khairkar	Biosphere
18	Rutuja Giripunje	Koch's postulates
19	Shivani Mandawkar	Outdoor & Indoor plants
20	Shruti Lokhande	Types of gardens
21	Snehal Kale	Garden features

S.N.	Name of students	Seminar Topic
1	Akshay Uike	Ribosome
2	Ankita Raut	Translation
3	Apurva Auzekar	Kosch Postulate
4	Ashvini Patar	Morphology of fibre yielding plants
5	Darshana Rendhe	Transcription in Prokaryotes
6	Darshana Sahare	Bacterial transformation
7	Diksha Burbure	Protoplast isolation methods
8	Lalit Maske	Molecular basis of crossing over
9	Leena Harde	Somatic hybridization
10	Mohan Kapse	Drug adulteration
11	Monali Bhuyar	Genetic markers
12	Nikita Khare	Protoplast isolation and culture
13	Pratiksha Getme	Biopesticides
14	Pratiksha Mahajan	Importance and source of plant alkaloids
15	Priti Borkar	Electrophoresis
16	Priya Deogade	Applications of Bioinformatics.
17	Priyanka Khairkar	Downy mildew of jowar
18	Rutuja Giripunje	Protein sorting
19	Shivani Mandawkar	Regulation of Gene expression
20	Shruti Lokhande	Integrated pest management (IPM)
21	Snehal Kale	DNA fingerprinting

M.Sc. Sem. IV (2020-21)

M.Sc. Sem. I (2021-22)

S.N.	Name of students	Seminar Topic
01	Aditi Kashyap	Structure and Morphology of Bacteria
02	Aishwarya Umate	Thallus organization in Algae
03	Aniket Shukla	Wheat Rust
04	Apurwa hatwar	Citrus canker
05	Ashwini Patrakar	Black arm of cotton
06	Ashwini Surkar	Technique of culturing algal biofertiliser
07	Dhiraj Dhobale	Fossil history of Bryophytes
08	Diksha Dhanvij	Progressive and Regressive theory of Evolution
09	Devyani Dadmal	Ephedrales
10	Kanchan Sangole	Evolution of stele
11	Prachi Timande	Calamites
12	Priya Bawane	Ophioglossum
13	Santoshi Chafle	Geological time scale
14	Sayali Gandait	Distribution, Origin and classification of gymnosperms
15	Shivani Deotale	Calamostachys
16	Shrutika Gaydhane	Gnetales
17	Sonal Khadse	Chromatography
18	Swapnashilta Khaire	Multiple alleles and Isoalleles
19	Yogini Wairagade	Hardy Weinberg equilibrium
20	Pooja Thak	Role of mutation in crop management
21	Shweta Makode	Staining Method
22	Arati Dambhare	Tissue preparation

23	Teena Uike	Epigenetics and Lamarckism
24	Komal lende	C- Value Paradox

M.Sc. Sem. III (2021- 2022)

S.N.	Name of students	Seminar Topic
01	Arpita Dhakare	Climax concept
02	Chetan Bahurupi	Resistance and resilience
03	Kajal Tembhurne	Cultivation of Mushroom
04	Manasi Kolhe	Indian system of medicine
05	Mrunal Bandwal	Asteraceae
06	Neha Betal	Liliaceae
07	Pooja Shambharkar	Hotspots and hottest hotspots
08	Pratik Burange	Vermicompost
09	Pratiksha Mamulkar	Organogenesis
10	Preeti Lohakare	cDNA
11	Priyanka Awchate	Rhizosphere
12	Santoshi Zodape	Vectors for prokaryotes
13	Shital Kodape	gDNA
14	Shital Mankar	Oyster Mushroom
15	Shivani Dhanule	Vectors for eukaryotes
16	Shraddha Ambarwele	Dermatophytic fungi
17	Swapnil Dhokpande	Biosphere
18	Utkarsha Chaudhari	Koch's postulates
19	Vishudha Alone	Outdoor & Indoor plants
20	Akanksha Agnihotri	Types of gardens
21	Ankita Baisware	Garden features
23	Vaishnavi Dongre	Ectotrophic and endotrophic mycorrhizae

Projects:

List of Projects (2019-20)

Sr. No.	Name of Student	Project Title
1	Sayali N. Jagtap	Leaf and root functional traits in grasses of semi-arid regions
1	Sayan N. Jagiap	with different resource conservation strategies.
2	Shrutika Sable	To study the efficacy of plant extract selected using against
2	Sillutika Sabie	micro-organisms
3	Hemlata P. Wanjari	Investigating carbon sequestration and storage capacity of tree
3	riennata r. wanjari	from wardha city and their relationship with crown and bole size.

4	Pooja V. Gawhankar	Taxonomical studies of some plants in vicinity of Bajaj college of science (Wardha).
5	Vishakha V. Wake	Stomatal Studies on some Selected crop plants.
6	Rajda A. Pathan	"Studies on Isolation and Identification of Vesicular Arbuscular fungi in wild plants of different families."

7	Swateja S. Sute	Estimation of oil from oil seed by solvent method or soxlet apparatus
	Pranjali P.	Qualitative and Quantitative Analysis of Moringa oleifera,
8	Deshattiwar	Ocimum sanctum and Azadirachta indica.
9	Punam S. Jadhao	Antifungal activity against plant pathogen.
9	Fullalli S. Jauliao	
10	Anup G. Mate	Project title- Taxanomical Study of Tree Species from Selected
	1	Area (Arti Square to Dattapur Bypass)
11	Snehal Amru	Assessment of physiochemical properties of soil from different
		land area in Umred Tahasil (Dist. Nagpur) India.
12	Nisha R. Koychade	Phytochemical screening and quantitative analysis of some
12		selected traditional wild fodder plants.
13	Pooja S. Irdande	Relationship between Stomatal traits and leaf veination
15	1 00ja D. Irdande	parameters in some wild and cultivated species of Wardha region.
14	Tejaswini Marwade	Qualitative and quantitative analysis of selected members of
17		Asteraceae.
15	Rashmi I.	Nutritional analysis of some wild vegetables in wardha district.
15	Chandankhede	Nutritional analysis of some wild vegetables in wardina district.
16	Jyoti H. Kharkate	Study of Algal Flora of selected pond.
17	Gayatri S. Bhabutkar	Phenotypic study of sorghum genotypes under drought stress
		Effect of organic and conventional farming on mycorrhizal
18	Snehal A. Sapate	colonization and their relationship with crop yields and nutrient
	-	content
19	Manija D. Tadaa	Determination of Toxicity of some Fungal Metabolites on Seed
19	Manija D. Tadas	Germination
20	Demons V Andre 1	Study of quantitative anatomical traits in genotypes of sweet
20	Punam V. Andankar	sorghum and grain sorghum
21	Renuka P. Mankar	Qualitative and Quantitative Analysis of some Ethnobotanical
<i>∠</i> 1		Medicinal Plants in Wardha district.

List of Projects (2020-

21)

Sr. No.	Name of Student	Project Title
1	Pratiksha Getme	Development of extraction process of chitin from crab shells and preparation of chitosan.
2	AkshayUike	Ethnobotanical study of medicinal plants in Wardha district
3	Nikita Khare	Chiton mediated seed priming improves seed germination in leguminous plants.
4	Darshana Rendhe	A review study on the comparative phytochemical organoleptic and microscopic study of <i>Moringa</i> spp.
5	Leena Harde	Extraction of essential oil of <i>Hyptis suaveolans</i> and <i>Eucalyptis grandis</i> by stem distillation method.
6	Ashvini Patar	Qualitative phytochemical analysis of <i>Alianthus excelsa</i> and <i>Ehretia laevis</i>
7	Darshana Sahare	Growing vegetables using hydroponics techniques

0	Pratiksha Mahajan	Effect of thiourea and indole butyric acid on rooting traits of	
0		cutting of Aster (Chrysanthemum sp.)	

9	Ankita Raut	Effect of thiourea priming on seed germination and seedling
10	Priti Borkar	growth of leguminous crops Isolation and identification of airborne fungi present in the
11	Mohan Kapse	Hinganghat city, district Wardha.Biosynthesis of Zno Nanoparticle mediated seed priming to improves seed germination and seedling growth in leguminous crops
12	MonaliBhuyar	Exploration of plant diversity of shirpur, Tah. Arvi Dist. Wardha.
13	Shruti Lokhande	Qualitative phytochemical analysis of Moringa oliefera
14	Apurva Auzekar	Cultivation of different types of mushroom by using different types of substrates
15	Priya Deogade	To study pharmacognosy and phytochemical analysis of Hyptis suaveolens (L.) Poit.
16	Priyanka Khairkar	To study the effect of chemical mutagens on seed germination of <i>Hyptis suaveolens</i> (L.) Poit."
17	Shivani Mandawkar	Nutritive value of some forage crops of Wardha.
18	Rutuja Giripunje	Growing Leafy vegetables using hydroponics techniques
19	Lalit Maske	The study of isolation of bacterial diseases of <i>Capsicum annuum</i> L.
20	Snehal Kale	Review of medicinal properties of <i>Ixora paveta</i> Andr. and <i>Ixora coccinia</i> L.

Bajaj College of Science, Wardha

DEPARTMENT OF CHEMISTRY (PG)

M.Sc. Projects : 2017-18

S.N.	Name of Faculty/	Name of Students	Topics
	Institution		
1	Dr. P. V.	Miss. Maya W. Gomase	Preparation of Graphene based Nanofluids for heat transfer enhancement.
	Tekade	Miss. Gauri G. Bhoyar	Modification of Graphene surface with TiO ₂ nanoparticle for gas sensing application
		Miss. Priyanka V. Dudhe	Photovoltaic application of Polyaniline-Graphene/TiO2 composite
2	Dr. Mrs. N. P.	Miss. Soniya N. Hirani	Ultrasonic studies of molecular interactions of drug with different solvent at different temperatures
	Mohabansi	Miss. Kiran B.	ZnS nanophotocatalyst : Synthesis, characterization and application for uv
		Waghmare	assisted degradation of dyes in aqueous solution.
3	Dr. K.M.	Miss. Roshani Jha	Synthesis of substituted novel pyrimidine derivatives & its biological
	Dadure		activities.
		Mr. Virendra A. Fulmali	Synthesis of substituted novel pyridine derivatives with protein based
			inhibition study
4	Mr.M. D.	Miss. Diksha D. Raut	Removal of heavy metal ions from water sample using modified cellulose
	Bansinge		as adsorbent.
	_	Miss. Pranali L. Rade	Detoxification of water sample using modified cellulose as an adsorbent.
5	Mr. N. A.	Miss. Bhagyashri R.	Mini review on A Recent advances in synthesis of some triazole moieties
	Barwat	Rahate	via Cu(I) catalysed click reaction
			153 of 16

6	D ₂ D	Mine Aultite C Day 1	Complexity of a second and a minute for the contract of the co
6	Dr. P.	Miss. Ankita S. Bunde	Synthesis of secondary amines by using Cu(acac) ₂
	Borkar	Miss. Shikha A. Oza	A novel synthesis of diaryl amines using Fe(III)(acac) ₃ mediated C-N
			bond coupling between aryl azide & phenyl magnesium bromide
7	Mr. G.	Miss. Sonali U. Ingole	Synthesis of ZnO nanoparticles by using Sol-gel method
	Lakhotiya		
8	Internal	Mr. Pranay D. Lande	Study of nutrient transfer from soil to plant biomass in different stages of
	supervisor:		plant development(Fenugreek)
	Dr. P.V.		
	Tekade		
	External		
	supervisor:		
	V.C.		
	Chaudhary		
	MGIRI		
9	Internal	Miss. Shweta M.	Screening of nutrient transfer from soil to plant biomass in different stages
	supervisor:	Dahilkar	of plant development(Spinach)
	Dr. P.V.		
	Tekade		
	External		
	supervisor:		
	V.C.		
	Chaudhary		
	MGIRI		
10	Internal	Miss. Shraddha P.	Study on adhesion properties of Soy flour based adhesive.
	supervisor:	Ingale	
	Dr. P.V.	<i>o</i> -	
	Tekade		
	External		
	supervisor:		
	Dr. M.		
	pathak,		
1	MGIRI		
	MOIN		

M.Sc. Projects : 2018-19

S. N.	Name of Faculty/Instit ution	Name of Students	Title of Project
1	Dr. P.V.	Miss. Nikita Gour,	Supercapacitive performance polypyrrolematal oxide nano composite
	Tekade	Miss. Payal Getme,	Supercapacitive study of poly-indole metal oxide nano-composite
		Miss. AnkitaRaut	Development of photovoltaic cell using polythiophene metal oxide nano-composite
2	Dr. Mrs. N. P. Mohabansi	Miss. Gulafsha Arshi Sheikh,	Thermoacostical and excess properties of the liquid mixture at various temperatures
		Miss.Pranita Patil,	Synthesis and catalytic activity of CdSnanophotocatalyst for photochemical oxidation of Chlorophenol under direct solar radiation
		Miss.KomalVairagade	Comparison of different advanced oxidation process for the treatment of antibiotic aqueous solution
3	Dr. K.M. Dadure	Miss. Ankita Bobade,	Synthesis of substituted chalcone & their physical & pharmacology study
		Miss. Komal Dolaskar	Synthesis of substituted chalcone & their silica based study
4	Mr. M. D. Bansinge	Miss.Gauri Khartadkar	Biosorption of heavy elements using modified biopolymer
5	Mr.N. A. Barwat	Miss.Sneha Kamde,	To study & characterize vanadium dioxide (VO ₂) and study its catalytic activity
		Miss.PragatiYelure	To study & characterized the synthesis of nano particles & study their applications
6	Dr. P. Borkar	Miss.Pratibha Ugemuge,	Fe(III) mediated C-N bond coupling of aryl azide with phenyl magnesium hepmide
		Miss.Priya Dhanorkar	Addition of aryl cuprates to azides, an improved protocol for the
			154 of 1

			synthesis of diaryl amines
7	Ms. B.U.Tale	Miss. Sanjivani Ingole,	Photovoltaic application of Poly aniline – Metal oxide nano-composite
8	Mr. C.D. Miss.Vedika Chambhare Vaidya		Spectrophotometric study of stability constant of complex of Tetracycline Hydrochloride and Gentamicin sulphate with Cr(II) and Sr(II)
7	MGIRI	Miss. Harshada Chikhalkar, Miss.Sakshi Kawale	Starch based adhesive preparation and study of their application Modification of Starch based adhesive preparation
8	Mr. G.V. Lakhotiya	Miss.MansiPande	Synthesis and characterization of eco-friendly metal oxide nanoparticles for biological applications
9	Dr. S.R.Tiple	Miss. Pooja Kite	Synthesis and characterization of solgel bases proton conducting electrolyte
10	Dr. Mangesh Yerpude	Miss. Nirmala Umate	Photoluminescence investigation and Ce-Dy energy transfer study in $Ca_3Y_2(Sio_3O_9)_2$

M.Sc. Projects : 2019-20

S. N.	Name of Faculty/ Institution	Name of Students	Title
1	Dr. P.V. Tekade	Ms. Dhanashri J. Deoghare Ms. Prajakta G. Zode	Study of effect of particle size of TiO ₂ nanoparticle on PV response of TiO2-PAni Nanocomposites. Study of effect of particle size of MnO ₂ nanoparticle on Supercapacitive response of MnO2-PAni Nanocomposites.
2	Dr. Mrs. N. Ms. Pranita K.Sawarkar		Nanophotocatalytic advanced oxidation process of dye Nanophotocatalytic advanced oxidation process of drug
3	Dr. K.M. Ms. Ashwini M. Dadure Gawande Ms. Runali M. Gautam		Design & synthesis of charcoal scaffold ,their CDK based study. Isolation & characterization of bioactive compounds from ixora plant extract
4	Mr.M. D. Ms. Darshana D. Doye Bansinge		Cross linked polymer of chitosan
5	Mr.N. A. Barwat	Mr. Sanket U. Bonde	A project on Review of Novel ways of Synthesis, Characterisation & application of TiO2 doped with different materials
		Ms. Snehal U.	A project on Review of studies of synthesis,

		Vanaskar	characterization & Dye degradation application of
			Polyaniline Zinc oxide.
6	Dr. P. Borkar	Ms. Yogita A. Badnore	Synthesis, characterization & antimicrobial activity of novel quinoline based imidazole derivatives
		Ms. Amruta N.Yadao	Synthesis, characterization & antimicrobial activity of novel quinoline based isooxazole derivatives
7	Ms. B.U. Tale	Ms. Achal R. Urkude	Synthesis & Characterization of TiO2 & MnO2 nanoparticles having Spherical & Cubic morphology.
8	MGIRI	Ms. Mamata R. Chandak	Synthesis and characterization of Eco friendly thickner for textile printing
		Ms. Priya B. Kadu	Modified starch for thickener for textile industry
9	Mr. G.V. Lakhotiya	Ms. Ashwin M.Paradhi	Synthesis of Graphene oxide by modified Hummers method
10	Dr. S.R. Tiple	Ms. Bhagyashri B. Sukhdeve	Proton conductor for fuel cell at room temperature to intermediate temperature
11	Dr. Mangesh Yerpude	Ms. Nikita B. Warkar	Synthesis of Tin oxide nanoparticle by Sol gel method.

M.Sc. Projects : 2020-21

S. N.	Name of faculty	Name of students	Торіс
1	Dr. P.V.Tekade	Ms. Neha D. Kewale	Study of complex optical properties of conducting Polymer-TiO2 Composites
		Ms. Ashwini U. Warthe	Carbonaceous Materials based Supercapacitive Materials : Review
2	Dr. Mrs. N. P.	Ms. Nitu D. Khaitwas	Slow Release Chemical Fertilizers
	Mohabansi	Mr. Saurabh D. Timande	Analysis of Agricultural Soil Sample
3	Dr. K.M. Dadure	Ms. Shreya S.Hiswankar	Worldwide Prevalence And Survey On Corona Virus
		Ms. Akanksha S. Mishra	A Review of Biogenic Synthesis of TiO ₂ Nanoparticles And Applications
4	Mr.M. D. Bansinge	Ms. Vanashree N. Deshbhratar	Review on Removal of Cr (VI) & F ⁻ from aqueous medium by using chitosan & cellulose cross linking polymer
		Ms. Chetana S. Rewatkar	Review On Removal of Cr(VI) And F-Ions From Aqueous Medium By Using Chitosan And Cellulose Cross-Linking Polymer
5	Mr. N. A. Barwat	Ms. Amruta N.Kumbhare	Review of Studies of Synthesis of Transition Metal 50 Ified Based Nanocomposites For Supercapacitor
		Ms. Nilam A. Sahare	Review of Studies of Synthesis of Transition Metal,

			Sulfied Based Nanocomposites For Supercapacitor Applications
6	Dr. P. Borkar	Ms. Aishwarya P.Pande	Recent Advances Towards The Synthesis And Biological Applications of Triazole Derivatives
		Ms. Abhilasha P. Dhanorkar	Mini review On Recent Advances Towards The Synthesis And Biological Applications of Isoxazole Derivatives
7	Dr. A.V. Nakhate	Ms. Rakhi R. Nagapure	Synthesis of Graphene Oxide Nanoparticle For Biomedical Application
		Ms. Yogeshwari D. Mohije	Graphite Oxide Flame -Retardant Polymer Nanocomposites
8	Dr. M. Haque	Ms. Radha S.Jaiswal	Impact of Biochar Derived From Agricultural Waste On Pesticides Sorption And Remediation - A Review
		Ms. Aparna C. Raut	A Review On Application of Eco-Friendly Biochar Technology For Effective Wastewater Treatment
9	Ms. B.U. Tale	Ms. Kajal Raut	Titanium Dioxide based Photovoltaic Responsive Nanomaterials for Solar Cell Application
10	MGIRI	Mr. Dipak T. Bhadade Mr. Akshat P.Hedaoo	Quality Study of Dham River Water A Review On Acoustical Parameter Investigation of Various Binary, Ternary Solvent-Solvent Interaction And Drug Solvent At Various Temperatures
11	Mr. G.V. Lakhotiya	Ms. Nidhi D. Dekate	Li ion batteries : Short review on construction and materials
12	Dr. S.R.Tiple	Ms. Anam Fatima Shah	Theoretical studies of proton conducting electrolyte for fuel cell
13	Dr. M.Yerpude	Ms. Sajeda Hasan	Development in Phototherapy Phosphors : A Review

MSc. Projects : 2021-22

S. N.	Project Supervisor	Name Of Students	Title
1	Dr. P.V. Tekade	Aasma Nayyum Khan Pathan	Electrical impedance spectroscopy study of Polyaniline /MnO ₂ composite.
		Vishakha Ramesh Galande	Study of Dye sensitized solar cell for efficient energy conversion. : A Review.
		Pallavi Ashok Bahadure	Optical properties of Polymer nanocomposites : A Review.
2	Dr. Mrs. N. P. Mohabansi	Aboli Raju Lakhakwar	Synthesis and characterisation of nanophotocatalyst and its application for waste water treatment.
		Shubham Ashokrao Jaiswal	Study of physicochemical parameters of various water samples.
		Sakshi Dipak Ukey	Heterogeneous nanophotocatalytic degradation of organic contaminents in waste water.
3	Dr. K. M. Dadure	Ashwini Gajanan Nasare	Molecular docking and in silico indentification of substituted phenylmethylene hydantoins as anticonvulsants agents.
		Kiran Kisan Dupare	Review: study on synthesis, characterisation & application of iron oxide.
		Nandini Shirishrao Khobe	In silico modelling studies on selected pyrazoline derivatives as potent anticancer agents.
4	Mr. M.D.	Sarita Sandip Pawade	Detoxification of industrial effluent using modified

	Bansinge		biopolymer.
		Roshani Shalik Upase	Removal of heavy elements using bioplolymer from waste water sample.
5	Mr. N.A. Barwat	Chanda Rameshrao Adde	Study and synthesis of nanoparticle of transition metal sulphide by supercapacitor.
		Dhanashri Randhawa Thool	Study and synthesis of nanocomposite of transition metal oxide by supercapacitor.
6	Dr. P. G. Borkar	Vikrant Prakash Gahukar	Application of Co-operative catalysis in organic synthesis.
		Urvashi Hansraj Pantawane	Synthesis and evaluation of novel heterocyclic compounds as microbial agents.
		Tushar Banduji Kale	Studies and synthesis of novel triazoles moieties for biological evaluation.
7	Dr. A. V. Nakhate	Pranali Rajendra Chandankhede	Synthesis of phosphorous doped BPS as flame retardant from bio compound.
		Pallavi Vinodrao Waraghane	Synthesis of phosphorous doped Graphene oxide layer as a highly efficient flame retardant.
8	Dr. M. Haque	Payal Namdeorao Chafle	A study of Biochar application for efficient removal of monocrotophos and carbendazim.
		Roshan Dilip Chute	Removal of Glyphosate and chlorpyriphos using biochar as low cost adsorbent.
9	Ms. B. U. Tale	Kunali Vinod Gondane	Study of Carbon based materials for energy storage : A Review
10	MGIRI	Gaurav Gulab Gurnule	Macro and micronutrients in agriculture: their application, role, effect, and doses: A Review
		Ashwin Ravidas Talwekar	

BAJAJ COLLEGE OF SCIENCE, WARDHA (AUTONOMOUS)

DEPARTMENT OF LANGUAGES

B. Sc. I , SEM I & SEM II



Name > Mans? B Jaypurkan Section - M3 Batch -15 Roll no - 1720 subject - English Assingnment 1 1

Poge No. Dote Achievements ้ำก Space OF India Science Indian space Research Organisation, also known as ISRO, has now risen among the highest and brightest echelons of the space agencies of the world. it has come a long way since its inception in 1962 when it was known as the indian National Committee For space Research or INCOSPAR From being an organization that used a Russian spacecraft in 1975 to launch its first satellite, it has now become fully independent and capable of launching not only indigenous stal satellites but also open a commercial arem "Antroix" to provide a platform to other countries for launching their satellites it made a world record in 2017 by launching 104 satellites in one go, most of which were from other which countwies. INCOSPAR grew and became the Indian Space 15th Research Organisation (ISRO) on August 1969. It was the perfect day as India was also celebrating its 22nd Independence day. ISRO'S mission was to space technology with the aim of national development while pursing Shrikrupa me