



Late Reverend Father Shri.MaskujiBirujiBurungaleShikshanSanstha, ShegaonR.No. F-422.

**SHRI. DNYANESHWAR MASKUJI BURUNGALE
SCIENCE & ARTS COLLEGE SHEGAON - 444203 Dist:
BULDANA.**

Ph. No.: + 91-07265-253959 Fax. No.: + 91- 07265-253959

(Affiliated to SantGadge Baba Amravati University, Amravati) [College Code No. 333]

Website: www.sdmbssc.org

Email: - sdmbshEGAON@gmail.com

ShriRamvijayDnyaneshwarBurungale

Dr.R.E.Khadsan

President

Principal

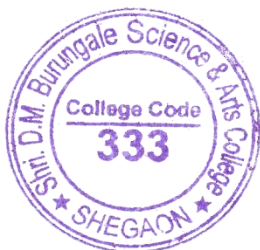
Email: - drkhadsan@gmail.com Mob. 09767317055

(NAAC Accredited with B⁺Grade, C.G.P.A. – 2.65)

Out. No. SDBMSC/NAAC/IQAC/AQAR/2020-21.

Date:-30/12/2021

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.



Rashadan ..

Principal

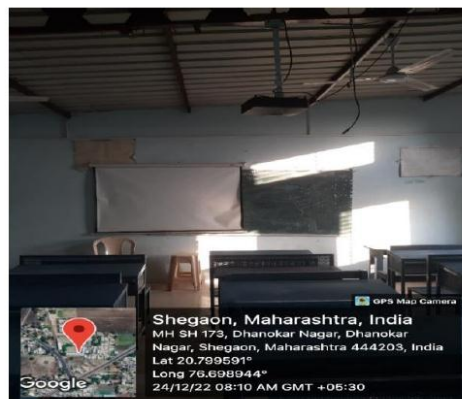
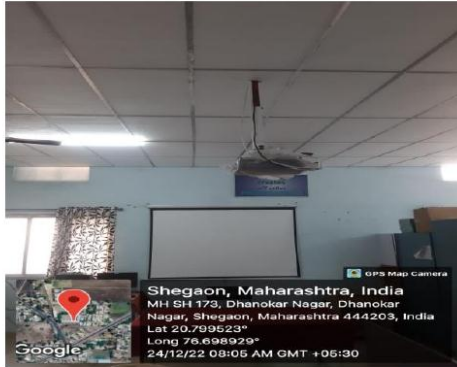
Shri Dnyaneshwar Maskuji Burungale
Science & Arts College, Shegaon
Dist. Buldana, Pin - 444203

Assessment and 80% for external assessment in the form of internal and external examinations. Internal evaluation takes into account Project assignment work, journal writing, timely assignments submission, seminar presentations, unit tests, study tour, Industrial visit/ Field visit, tutorials and quizzes. The faculty members review students regularly on these criteria and provide opportunity for students to improve their performance. Students' participation in competitions, seminars and conferences, research competitions and other events support the attainment of the stated outcomes. The internal and external assessment systems are of course a way of evaluation. Furthermore, students are observed for their involvement in participatory learning, eagerness to take initiative in activities, improved learning capabilities, development of confidence and personality building etc. Observation and conversation accurately reflect what is achieved from the curriculum. Through external examination, academic performance is assessed. Meritorious students are recognised by felicitating in the institution on Republic Day celebrations and awarded prizes. University results are thoroughly reviewed and analysed during Academic audits of departments and discussed in College Development Committee Meetings. Through student's feedback mechanism the program and Course outcome are evaluated. Number of Students' progression to higher studies reflected the Program and Course outcome.



Shri. Dnyaneshwar Maskuji Burungale Science and Arts College, Shegaon

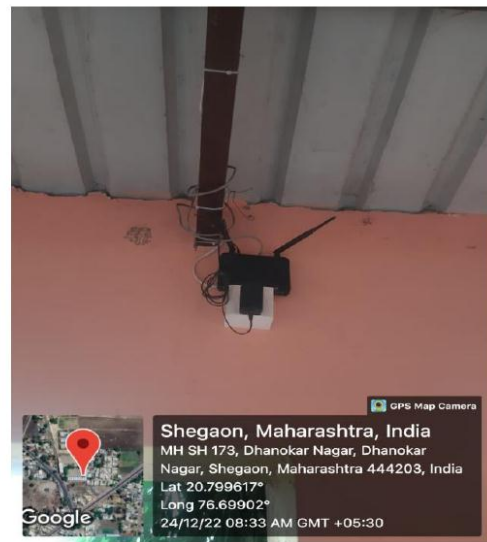
College LCD





Shri. Dnyaneshwar Maskuji Burungale Science and Arts College, Shegaon

College WIFI



Guest Lecture Photos







Sports and Cultural Activity

TheHitavada

Vidarbha Line | 2022-04-30 | Page- 6
ehitavada.com

Nisha wins prize in youth festival



Nisha Sonone receiving the award at the hands of guests.

■ **Our Correspondent**
SHEGAON, Apr 29

NISHA Sanjay Sonone, B Sc III student of local Shri Dnyaneshwar Maskuji Burungale Science and Arts College, won the first place in the mimicry art form in the youth festival-2021organised

by the Student Welfare Department of Sant Gadgebaba Amravati University (SGBAU) at Amravati the other day.

The youth festival was organised at Brijlal Biyani College, Amravati.

Nisha Sanjay Sonone, a student, Shri Dnyaneshwar Maskuji Burungale Science and

Arts College, participated in the mimicry the art form and won first place.

She was presented the award in the presence of Bacchu Kadu, Minister of State for Water Resources and School Education, former MLA Sulbha Khodke, President of the institution Ashok Rathi, SGBAU Vice Chancellor Dileep Malkhede, Registrar Dr Tushar Deshmukh, Director Raju Borkar, Principal Dr Deepak Dhote, Youth Festival Coordinator Sanjay Ishwarkar, Shiv Thakre, Prafulla Gavai and others. Nisha Sonone was congratulated by the Burungale College staff, principal, lecturers and others.

Nisha Sonone is the daughter of Sanjay Sonone, a journalist. All the journalists in the city have congratulated Nisha and appreciated her performance.

Powered by iDocuments







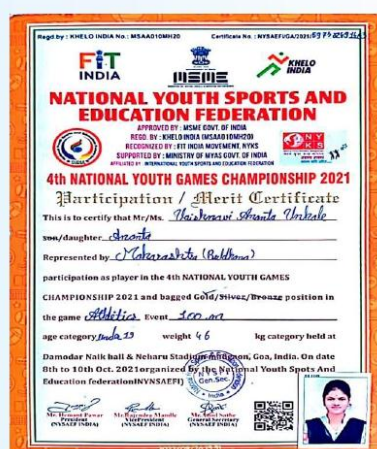
Colour coat in Kho-Kho



I) **Ms. Sushmita Vasantha Pote** was awarded the Colour in Kho-Kho for representing team in the West Zone Inter-University tournament held at Veer Narmada South Gujarat University, Surat during the year 2021-22.

Gold Medal Athletics

Department of physical education of our college always motivated to student for participation in sport on various levels such as college level, university level,



students of our college has actively participated 4th National Youth Game Championship-2021 organized by National Youth Sport and Education Federation India during 8th October 2021 to 10th October 2021. She got Gold medal

in Athletic event 100 meter held at Damodar Naik Hall and Neharu Stadium Madgaon Goa, India.

2) In session 2021-22

Ms. Vaishnavi Ananta Unhale B.A.-II students of our college has actively participated Nepal in 7th Nepal International Hero's Games Championship-2021-22 organized by youth Sport development forum, Nepal on 1st may 2022 to 5th may 2022 and she bagged Gold Medal in Athletics event 100 meter which is held at Rangshala Stadium Pokhara,



Kho-Kho Tournament



Sant Gadge Baba Amravati University Amravati allotted Kho-Kho zone to our college for arranging inter-collegiate Kho-Kho tournament for women's. Two days inter-collegiate kho-kho tournament conducted by Department of Physical Education of our college in our college ground on 30-31th December

2021. Hon. President Shri. Ramvijay Dnyaneshwar Burungale President of Late reverend father Shri. Maskuji Biruji Burungale Science and Arts College Shegaon and Dr. R.E.Khadsan inaugurated this tournament. Total 27 teams were participated for this tournament. In this tournament

Participation in Intercollegiate Game



Girl Kho-Kho team of our college participated in intercollegiate Kho-Kho tournament arranged by Sant Gadge Baba Amravati University Amravati at HVPM College Amravati. During this tournament

our college Kho-Kho team reaches to final match and at the end our team beat the HVPM college Kho-Kho team and we won runner up prize in same.

Library and Information Technology



Program on Right to Information Act-2005

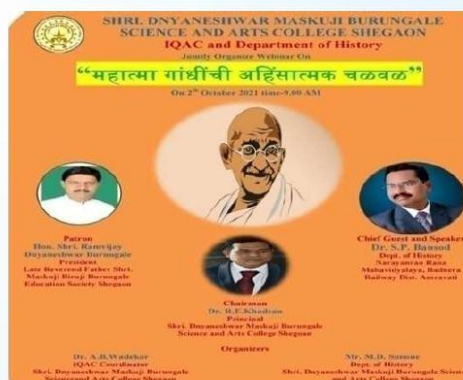


IQAC and NSS jointly organized one day webinar on right to information act-2005 on 13th October 2021. This program was started with introductory speech by Dr. G.D.Tambatkar. Mr. Y.P.Vayal introduced to resource person. Dr. J. J. Jadhav, HOD of Political Science Department Shri. Shivaji Science and Art's College, Chikhli was resource person for this webinar. Sir delivered his nice lecture on RTI Act 2005. In which sir has explained various dimension and clauses of this act. After interaction with participants lecture was end. Dr. R.E. Khadsan, Principal of our college was chairperson for this webinar and he delivered his presidential speech during webinar and program end with vote of thanks proposed by Dr. A.B. Wadekar, IQAC coordinator. 82 participants were attended this program.

Celebration of Mahatma Gandhi Jayanti

IQAC and department of history jointly celebrated birth anniversary of Mahatma Gandhi and Lal Bahdur Shastri jointly on 2nd October 2021. On this occasion organized webinar on "महात्मा गांधीची अहिंसात्मक चळवळ". This program started with introduction of guest. Mr. M.D. Sonone HOD of history introduced guest. Introductory speech delivered by IQAC coordinator Dr. A.B. Wadekar. Dr. S.P.Bansod,

H.O.D. History, NRM College Amravati was chief guest and speaker for this webinar. Sir has delivered his outstanding speech on given topic. In which he explained various campaign run by Mahatma Gandhi corresponding to nation freedom. Also he was focuses on various aspects related to the life of Mahatma Gandhi and Lal Bahadur Shashtri. Specially he took attention of all participants toward the freedom fighters belonging to Buldana district and nearby area during British India. Dr. R.E.Khadsan was chairperson for thus function and he was concluded webinar through his presidential speech. Finally program end with Vote of thanks. 95 participants were attended this program.



Voter Awareness Program



IQAC and Electoral Literacy Club and NSS jointly organized seminar on Voter awareness program on 29th November 2021. This program started with introductory speech by IQAC coordinator Dr. A.B.Wadekar then introduction of guest and dignitaries on dice by Dr. G.D. Tambatkar. Mr. Samadhan G. Sonone, youngest Hehsildar of Shegaon taluka was a speaker of this program.

He was explained importance and values of your constitutional rights. What are the constitutional rights and duties of Indian citizen regarding to our nation. He inculcated the value of single vote in the nation development. Dr. R.E. Khadsan chairperson of this program concluded this program in his presidential speech and program end with vote of thanks by Dr. P.V.Pingle. 92 participants were attended this program.

Participated In AISHE and Management Information System (MIS) Portal of MHRD, Government of India,

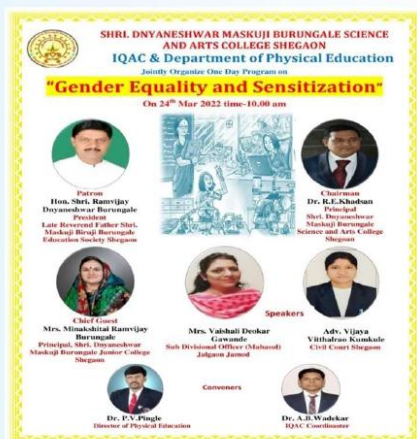
Time to time IQAC provided called information to higher Authorities of Maharashtra state Government and Central government of India. IQAC had participated in MIS system and uploaded details college information included teaching, non-teaching staff, students and other related information to MHRD Government of India. UGC, RUSA, NIRF, AISHE, MIS committee uploaded all India Survey on higher education on AISHE portal for the session 2020-21 on 29 January 2022. Management information system of higher educational information was successfully uploaded on DHE MIS portal for the session 2021-22 on 24 December 2021.

Women Cell



This year Women's day was celebrated on 8th March 2022. For this event, a few of the themes were suggested by the Education Director, Higher Education, and Maharashtra State Pune-1. From the suggested themes Women's faculty of the college planted a tree on the college premises. On the same occasion **"One Act Play"** activity was conducted for the college students. Total 21 participants were shown their performance, among these three best students were selected by the jury members.

Gender Equality and Sensitization



IQAC and department of physical education jointly organized one day program on Gender equality and sensitization on 24th March 2022. This program started with introduction of all dignitaries on dice. Dr. A.B. Wadekar delivered introductory speech of this program. In beginning Mrs. Vaishali Deokar Gawande S.D.O. (Mahasul), Jalgaon Jamod motivated to all girls thorough her speech and said to them to come out form your comfort zone and achieved your all goals in this life only without scaring about your problems. Then Adv. Viajay Vitthalrao Kumkule talked about various laws about gender equality and sensitization as well as Indian constitutional rights of women. Chief

Guest of this program Mrs. Minakshital Ramvijay Burungale, Principal Shri. Dnyaneshwar Maskuji Burungale Science and Arts college Shegaon inspired to audience and give various useful suggestion to overcome all problems from your rout of success then Dr. R.E. Khadsan Principal, Chairperson of this program concluded all through his presidential speech. Program end with vote of thanks by Dr. P.V. Pingle. 108 participants were attended this program.

Soft Skill Development Workshop



IQAC of our college organized various types activities to develop soft skills in students. Student Carrier and guidance cell conducted soft skill development workshop during 14th To 17th March 2022. This activity helps learners to learn and acquire soft skills like Communication Skills, Presentation Skills, Written Communication, Interpersonal Skills, Creativity and Leadership etc.

First Day-

14th March,

Dr. Deepak Nagrik, Dept. of Chemistry G.S. Mahavidyalaya Khamgaon inaugurated the workshop and addressed to students. Dr. R.E. Khadsan was chairperson of this program. Prof. N.G. Ghungarwar proposed vote of thanks. Prof. A.P.Nagrale introduced chief guest. Dr. Sonal Kame Trainer conducted session on Motivation and Goal Setting and session end with interaction and vote of thanks.



Day Second- 15th March 2022 Dr.Umesh Chapake conducted three Session, first session on Verbal Communication, second on Nonverbal Communication and third session on Time Management. This session was taken for students to make them understand the importance of "How to Communicate" and develop the art of conversation.

Day Third- 16th March 2022, session was taken by Dr. D.L Bhade, First Session on Group Discussion, second on Presentation Skill and third on Resume Writing. This session was taken for students to make them understand the "Importance of Communication Skills at this crucial stage". The main objective of this session to make them aware about global scenario and how to become expert in these skills.



Day fourth- 17th March 2022, Two Session on Interview Skill and Character Moral and Ethics was conducted by Dr D.L Bhade. He emphasized the importance of moral and ethics and motivated students for the same. He conducted various short activities. He interacted with the students and answered the queries of the student. Third session was a Valedictory Function Dr R.E Khadsan was chairperson of this function, Chief Guest Mr. Minakshitai Ramvijay Burungale, A.P. Nagrale

coordinator, Dr A.B. Wadekar NAAC coordinator, all head of department, teaching staff and total fifty students were present for this workshop.

NDA/CDS Awareness Workshop-2021-22



Competitive Exam Guidance Cells organized one day "NDA/CDS Awareness Workshop 2021-22" on 17/02/2022. The resource person of the program was Mr. S. B. Tale, Director, Apex Career Academy, Shegaon Dist. Buldana. The chairman of the program Dr. D. L. Bhade (Asso. Prof. Department of Environmental Science).

Mr. S. B. Tale Sir gave his lecture and he gave all the information about NDA Exam and CDS Exam to the students, syllabus, paper pattern, reference books and strategies for exam. Also he talked about opportunities of career through the Exam. Total 65 students were present for the workshop. After the lecture the Chairperson Dr. D. L. Bhade Sir delivered his presidential speech. At the end vote of thanks was given by Prof. N. G. Ghungarwar.

Counseling and Placement Cell



Counseling and Placement cell of the college conducted meeting twice in the session. In first meeting discussed about plan to increase placement of students and also discussed about skill development training course during 2021-22 in collaboration with TATA consultancy services private limited. Also IQAC conducted various program and workshop concern to career opportunities in Chemistry, Environmental Science, Computer Science, and Microbiology. Through the



training course students were trained by an expert's trainer. Total 65 students were placed during academic session 2021-22 in different multinational companies.

IIT JAM Awareness Workshop-2021-22



9/12/2021, Competitive Exam Guidance Cell and Department of Mathematics jointly organized "IIT JAM Awareness Workshop 2021-22" at Shri. Dnyaneshwar Maskuji Burungale Science and Arts College Shegaon, Dist. Buldana. The workshop was successfully conducted under the super vision of the Honorable President Shri Ramvijayji Burungale (Bapu Saheb), Chair person of the Program respected Principal Shri Dr. R. E. Khadsan Sir, Coordinator Dr. K. R. Mule Sir, Head Department of Mathematics, Chief Guest Dr. Mahesh S. Wavare, Head Dept. of Mathematics, Rajarshi Shahu Mahavidyalay (Autonomous), Latur. The Chief Guest was introduced by Prof. M. J. Thakare (Asst. Prof. Dept. of Microbiology). The welcome and theme of the exam explained by Dr. K. R. Mule (Head, Dept. of Mathematics).

The resource person of this program Dr. M. S. Wavare Sir has delivered his lecture, his lecture was very informative. He discussed problem solving techniques; also he gave information about syllabus and pattern of examination and various future opportunities after passing this exam. At the end he gave time for our students to ask queries and difficulties and he gave the solution for queries and explained very kindly.

The vote of thanks for this program was given by Prof. N. G. Ghungarwar (Asst. Prof. Dept. of Mathematics), Nodal Officer, Competitive Exam Guidance Cell.

NDA/CDS Awareness Workshop-2021-22



Competitive Exam Guidance Cells organized one day "NDA/CDS Awareness Workshop 2021-22" on 17/02/2022. The resource person of the program was Mr. S. B. Tale, Director, Apex Career Academy, Shegaon Dist. Buldana. The chairman of the program Dr. D. L. Bhade (Asso. Prof. Department of Environmental Science).

Mr. S. B. Tale Sir gave his lecture and he gave all the information about NDA Exam and CDS Exam to the students, syllabus, paper pattern, reference books and strategies for exam. Also he talked about opportunities of career through the Exam. Total 65 students were present for the workshop. After the lecture the Chairperson Dr. D. L. Bhade Sir delivered his presidential speech. At the end vote of thanks was given by Prof. N. G. Ghungarwar.

Counseling and Placement Cell



Counseling and Placement cell of our college conducted meeting twice in this session. In first meeting discussed about plan to increase placement of students and also discussed about skill development training course during 2021-22 in collaboration with TATA consultancy services privet limited. Also IQAC conducted various program and workshop concern to carrier opportunities in Chemistry, Environmental Science, Computer Science, and Microbiolog. Through this training course students were trained by well expert's trainer. Total 10 students were placed during academic session 2021-22 in different multinational companies.

Soft Skill Development Workshop



IQAC of our college organized various types of activities to develop soft skills in students. Student Carrier and guidance cell conducted soft skill development workshop during 14th To 17th March 2022. This activity helps learners to learn and acquire soft skills like Communication Skills, Presentation Skills, Written Communication, Interpersonal Skills, Creativity and Leadership etc.

First Day-

14th March,

Dr. Deepak Nagrik, Dept. of Chemistry G.S. Mahavidyalaya Khamgaon inaugurated the workshop and addressed to students. Dr. R.E. Khadsan was chairperson of this program. Prof. N.G. Ghungarwar proposed vote of thanks. Prof. A.P.Nagrale introduced chief guest. Dr. Sonal Kame Trainer conducted session on Motivation and Goal Setting and session end with interaction and vote of thanks.



Day Second- 15th March 2022 Dr.Umesh Chapake conducted three Session, first session on Verbal Communication, second on Nonverbal Communication and third session on Time Management. This session was taken for students to make them understand the importance of "How to Communicate" and develop the art of conversation.

Day Third- 16th March 2022, session was taken by Dr. D.L Bhade, First Session on Group Discussion, second on Presentation Skill and third on Resume Writing. This session was taken for students to make them understand the "Importance of Communication Skills at this crucial stage". The main objective of this session to make them aware about global scenario and how to become expert in these skills.



Day fourth- 17th March 2022, Two Session Interview Skill and Character Moral and Ethics was conducted by Dr D.L Bhade. He emphasized on importance of moral and ethics and motivated to students for the same. He conducted various short activities. He interacted with the students and answered the queries of the student. Third session on Valedictory Function Dr R.E Khadsan was chairperson of this function, Chief Guest Mrs. Minakshitai Ramvijay Burungale, A.P. Nagrale

coordinator, Dr A.B. Wadekar NAAC coordinator, all head of department, teaching staff and total fifty students were present for this workshop.

Department of Chemistry

Career Opportunities in Chemistry



Department of Chemistry organized webinar on "Career Opportunities in Chemistry" for B.Sc. chemistry students on 21st October 2021. A.B.Wadekar gave introductory speech and introduced to guest. Dr. Dinesh N. Sawant, Scientist, Organic Chemistry Division, CSIR, National Chemical Laboratory, Pune gives Information of various carrier

oriented Opportunities in Chemistry after Completion of B.Sc. in different Industries, Chemical Labs and research area etc, Also Sawant Sir shared fruitful knowledge to the students. All Students were so intentionally & enthusiastically attend this program. Dr.R.E.Khadsan, principal and Chairman of this program concluded this webinar in his presidential speech. Prof. Y.P.Wayal expressed vote of thanks

Educational Study Tour at Lonar Lake



Department of Chemistry organized educational study tour at Lonar Lake Lonar dist. Buldana on 19th December 2021. Aim of this tour to make aware students with historical and world level heritage of our area and introduced them about research field belonging to our own area. Many

researchers from various countries visited to this lake due to their uniqueness. Total 75 students along four departmental faculties were participated in this education study tour.

Department of Microbiology

Blood Group Detection Camp for Village People Held At Nagzari)



This year NSS camp was held at Nagzari village. On 2nd April 2022 Department of Microbiology contributed this camp by providing extension activity Blood group detection for village people. Very good response was given by the residential people. A total of 200 individuals were tested during this event. Faculty members of the Microbiology department and students made this event successful.

Our Planet Our Health

World Health Day (7th April 2022) celebrated by Microbiology Department. The theme of the event was "Our Planet Our Health". On occasion of this event Microbiology Department organizes health camp for entire students and staff of the college. This camp includes Blood



Group Detection, Hb% Detection, Blood sugar and B.P. measurement. A huge response was shown to the event a total of 214 students (other than Microbiology Department) and staff members got benefited from this event. All the teaching faculty of the department and a group of final year students organized it in very good manner by maintaining strict hygienic practices. This event was inaugurated by Hon'ble Principal Dr. R.E. Khadsan and chief Guest Sau. Minakshitai Burungale (Principal shri. Dnyaneshwar Maskuji Burungale Jr. College, Shegaon)

Health and Hygiene awareness campaign



On occasion of World Health Day Microbiology Students run the campaign for School children here microbiology Students went to the school and motivated the students and make them aware about Good health and how to maintain hygiene of one self and our surrounding too. In this event 300 school students were present. For the successful conduction of this event teachers and students of the Microbiology Department took wise efforts.

Webinar on "Strategies to crack competitive exams after B.Sc. in Life Science"



Department of Microbiology in collaboration with IQAC of the college has organized webinar on "Strategies to crack competitive exams after B.Sc. in Life Science" on 19th April 2022 for this event Prof. Prajakta Chaugule (Institute for Advanced Studies, Pune) was delivered talk as a resource person.

The said webinar was attended by 83 participants including final year students, Microbiology department faculty members and IQAC members of the college. Students were fully satisfied with this webinar.

Hb% Detection in Female and Blood Group Detection Camp



Microbiology Department conducted Hb% Detection in female and Blood Group detection for higher secondary school children as the department Extension activity at Hingna Kovtal on 26th April 2022. In this event 83 young and adult females checked their Hb% along with school children of the

village. Three faculty members of the department and group of 10 students from final year successfully conducted this activity.

Skill Development for Pharmaceutical Industry



One week certificate course in "Skill development for pharmaceutical industry" was conducted by Microbiology Department of Shankarlal Khandalwal Arts, Science & Commerce College, Akola. (09/05/2022 to 15/05/2022). This



course was attended by 16 final year students of the College. Trainer for this course was Dr. Anil Fokmare (GISM). Students' feedback was very good regarding this course. Student registration was done by college.

Value Added Course on Cyber Security

To lay a strong foundation to understand and deal with the cyber operations, a thirty hours value added course in Cyber Security was conducted for students in online mode. The course was conducted from 27 October 2021 to 09 December 2021. A total 74 students were registered for the course, out of which 69 students completed the course.

Mr. V. V. Agarkar was the coordinator of the course. Miss V. V. Sharma was the faculty and worked hard for the syllabus. Certificates were given to all the students who completed the course.

SHRI DNYANESHWAR MASKUJI BURUNGALE
SCIENCE & ARTS COLLEGE, SHEGAON

DEPARTMENT OF COMPUTER SCIENCE

Value Added Course
CYBER SECURITY CPVACS
for
B.Sc. (Computer Science) Students

COURSE PERSPECTIVE
Value added course is generally provides the specialized professional knowledge and skills, which enhance professional adequacy for the trainees.

Every human kind using digital technologies such as apps, emails, social media, smart phones, online banking, online shopping etc. The increased access of internet has also made it vulnerable to crimes like phishing, hacking, cyber terrorism etc. Modern life depends on online services, so having a better understanding of cyber security threats is vital.

On this course, students shall learn how to recognize online security threats that could harm them and explore the steps that can take to minimize the risk. The course will improve student's online safety in the context of the Malware, Mobile protection, social network security etc.

COURSE OBJECTIVES
To explore the world of cyber security and develop the skills needed to stay safe.

COURSE DURATION
The duration of value added course is 30 hours with a contribution 23 hours (77%) of theory and 07 hours (23%) of practical demonstration. However, the combination of theory and practical shall be decided by the Head of the Department.

METHOD OF LEARNING
This is course would be taught via online mode through Google Meet/Zoom platform.

REGISTRATION
The details of the course is displayed on the college website along with the syllabus. A student shall register for the course by filling online application (Google Form) form. Link is shared in WhatsApp group.

TIME SLOT
The time for this course will be decided keeping in view the time of online classes and college time table.

CERTIFICATE
Students can get an E-Certificate duly signed by the authorized signatories after they have completed the course and successfully passed.

SYLLABUS
• Cyber security Fundamentals
• Cyber Security Breaches
• Types of Cyber Attacks
• Prevention Tips
• Mobile Protection
• Social Network Security
• Prevention Software
• Critical Cyber Threats
• Defense Against Hackers

COORDINATOR
From 20-October-2021.

CONTACT
PROF. V. V. AGARKAR
Course Coordinator
Assistant Professor & Head
Department of Computer Science
Mobile No. 942518555

Seminar on "Employability Skills Required For IT Sector"

Late Reverend Father Shri. Maskuji Biruji Burungale Shikshan Sanstha's (R.No. F-422)

SHRI DNYANESHWAR MASKUJI BURUNGALE
SCIENCE & ARTS COLLEGE, SHEGAON
(NAAC Accredited with B+ Grade, C.G.P.A. - 2.65)

DEPARTMENT OF COMPUTER SCIENCE
organizes

A Seminar on
"Employability Skills Required for IT sectors"

06
December
2021

Time : 11.30 AM

Dr. R. E. Khadsan
Chairman

Mr. P. S. Patil
Chief Guest & Speaker

Computer and information technology jobs are among the fastest-growing occupations, aiming to provide intense information and guidance on this topic for the final year students a seminar on "Employability Skills Required for IT Sector" was organized on 06 December, 2021. Mr. V. V. Agarkar,

Head Department of Computer Science was stated the purpose of this seminar and also introduced the chairperson and the speaker. Dr. R. E. Khadsan, Principal was the Chairperson, he inaugurated the seminar and guided that it was important to pursue various skills keeping in view the available job and employment opportunities. Mr. P. S. Patil, Director, Shonarya Technologies Pvt. Ltd., Pune was the chief guest and speaker. He emphasized on the various technical skills require, the scope of available jobs and various certification such as Microsoft, Google etc. All teaching and non teaching staff of Computer Science department was the members of organizing committee.

Department of Electronics

Hands-On Training Program On Household Appliances Repairing



Department of electronics has organized one-day program on Hands-on training on Household appliances repairing on 28 OCT 2021. Total 28 student of college participated in workshop. Mr. Kadale Sir has successfully conducted program. Where they taught and demonstrated how to repair different household appliances and maintenance of fan he also explain the concept to two-way switch and how to make connection of extension box how to find out the faults in the circuit and fan.

E-Waste Seminar Competition

In the 20th Century, revolution in the information and communication techniques brought the huge changes in the way we organize our lives, our economies, industries and institution. Specifically, the electronic industry in the world is the largest and fastest growing manufacturing industry. However, it led to give birth to E



waste production. E waste means electronics waste products generated by the electronics industry. E waste produces of massive amount of hazardous waste and other wastes generated from electric products. It constitutes a serious challenge to the modern societies and health issues due to informal recycling, poor awareness and reluctance on part of the corporate to address the critical issues. These thing keep in mind our department decides to take initiative about the E waste awareness and its collection among the students and society. Hence series of programmes was arranged in the department including E-waste poster competition, E-waste seminar competition, E- waste awareness survey E waste Seminar competition

was held on 13 April 2022. 15 students from electronics departments were participated in the activity as a referee A. P. Nagarale from Microbiology department and Mr. M.J.Thakare from Microbiology department were present. during the competition they discuss many issue with the student and enhance the curiosity of the student by raising questions related to the e waste issue and its solution. it was nice experience for the student as they mentioned in their feedback session. first prize of competition was given to gayatri tathod from BSc II ,priya thosar from BSC III got Second prize and third prize goes to Hariom Gavande from from Bsc III.

E waste Poster Competition



E waste Poster competition was held on 13 April 2022. 26 students from electronics departments were participated in the activity as a referee Dr. P.M. Deshmukh from Microbiology department and Mr. Y.P. Wayal from Chemistry were present and guide the students. first prize goes to Miss Vaibhavi Senger from Bsc I year. Second prize goes to Rohan Chaurasiya from BSc I year and third prize goes to Gayatri Tathod from Bsc III are the winners of the activity.

E -Waste Survey In Nearby Villages of Shegaon

Department of Electronics has organized the series of E waste awareness program as part of this last week of April 2022 was dedicated to the activity in this activity 200 forms of E waste management's questionnaires were distributed among the students of B.Sc Electronics. They were visited different people of society and gives the information regarding to the E waste management and fill up the survey forms.



Library

National Level "Workshop on E-Content Development"

Now a day education systems become more advance due to technology touch. Used of various technical tools is a need of current scenario. IQAC knew values of technology and their uses and tried to motivate for the used technical tools in traditional teaching methods as per current situation. Bearing this all we organized one day online workshop on th E-content Development on dated 9th August 2021. Dr. Ku. Reena Deshmukh introduced to all dignitaries. Dr. Rahul K. Deshmukh, Librarian, SGRG Shinde Mahavidyalay Parandaa, Dist. Osmanabad. Dr. Deshmukh delivered his lecture on E-content development as a resource person, during lecture Sir was explained various terminologies regarding to same. Dr. R.E. Khadsan was chairman for this program. Beyond the vote of thanks feedback link along with certificate was sent to all participants. This program conveyed by IQAC Coordinator and Librarian of our college. 150 participants responded this workshop.



Webinar on "Awareness about National Digital Library of India"



Department of Library in Association with National Digital Library of India Club

organized Webinar on "Awareness about National Digital Library Of India" for all UG students of the college. NDLI Club members on 23/09/2021 through Shri Dnyaneshwar M. Burungale science and Arts College. Dr. Reena Deshmukh department of chemistry delivered the welcome address and Dr. Ranjana Jawanjal (Librarian) Introductory speech. Dr. Vaishali P. Gudadhe (Chaukhande) gave a detailed presentation on Why,

वाचन प्रेरणा दिन(१५ ऑक्टोबर २०२१)

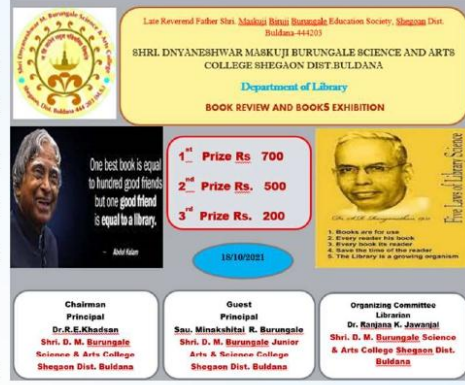
दि.१५ऑक्टोबर२०२१रोजी महाविद्यालयाच्या ग्रंथालय विभागा अंतर्गत भारताचे माजी राष्ट्रपती डॉ.ए. पी.जे अब्दुल कलामयांचा जन्म दिवस वाचन प्रेरणा दिन म्हणून साजरा करण्यात आला. सदर कार्यक्रम कोविड-१९ या संसर्गजन्य रोगाच्या प्रादुर्भावामुळे शासनाने ठरवून दिलेल्या नियमावलीनुसार दि.१२/१०/२०२१ते१५/१०/२०२१पर्यंत ऑनलाईन पद्धतीने घेण्यात आला.कार्यक्रमा दरम्यान

१) दि. १२ऑक्टोबर २०२१रोजी सोशल मिडियाद्वारे विद्यार्थीवाचकासोबत संवादसाधून वाचन प्रेरणादिनाचे ववाचन चळवळीचे महत्वपटवून दिले .दि. १५ऑक्टोबर २०२१ रोजी डॉ.ए.पी.जेअब्दुल कलामांचा जन्मदिवस वाचनप्रेरणा दिन साजरा करण्यासाठी कार्यक्रमाची रूपरेषा समजावून दिली व त्यासाठी सर्व सुचना दिल्या.

२) दि.१३ ऑक्टोबर २०२१ रोजी विद्यार्थ्यांमध्ये वाचन संस्कृती वृद्धीगत होण्याकरिता (डॉ.ए. पी.जे अब्दुल कलामा वरील साहित्य व माहिती) महत्त्व पटवून देवून विद्यार्थी वाचकांना प्रोत्साहित करण्यात आले.

३) दि.१३ ऑक्टोबर २०२१रोजी वाचन संस्कृती जोपासतांना विद्यार्थीयासाठी ऑनलाईन पद्धतीने डॉ. ए. पी.जे अब्दुल कलामयांच्या जीवन चरित्रावर आधारित व इतर साहित्या वरआधारित विविध पुस्तकावर Book Talk Competition चे ऑनलाईन पद्धतीने आयोजन करण्यात आले. यामध्ये१००विद्यार्थीनी आपला सहभाग नोंदवला.

४) दि. १४ ऑक्टोबर २०२१ रोजी डॉ. ए. पी.जे अब्दुल कलामयांच्या साहित्याच वर आधारित निवडक , कथा, कविता, लेख यावरआधारित Book Review Competition व Books exhibition चे आयोजन करून, प्रदर्शन भरविण्यात आले .हे उपक्रम ऑनलाईन पद्धतीने घेण्यात आले, यास विद्यार्थी वाचकांनी समाधानकारक प्रतिसाद दिला. Book Talk Competition मध्ये प्रथम क्रमांक कु.अनामिका श्रीनाथ ,द्वितीय क्रमांक कु. पूनम आसोलकर ,तर तृतीय क्रमांक सपना शेगावकर यास्पर्धकांना प्रथम बक्षिस७०० रु द्वितीय बक्षिस ५०० रु तर तृतीय क्रमांकाचे बक्षिस २००रु. या स्वरूपामध्ये बक्षिस वितरण करण्यात आले. यानंतर Book Review Competition चे प्रदर्शन



Law Reverend Father Sris. Madhavi Sris. Burungale Education Society, Shiggaon Dist. Buldana-442013

SHRI DNYANESHWAR MARGUJI BURUNGALÉ SCIENCE AND ARTS COLLEGE SHEMAON DIST.BULDANA

Department of Library

BOOK REVIEW AND BOOKS EXHIBITION

1st Prize Rs. 700
2nd Prize Rs. 500
3rd Prize Rs. 200

Chairman
Principal
Dr. R.E.Khadse
Shri. D. M. Burungale
Science & Arts College
Shiggaon Dist. Buldana

Guest
Principal
Shri. Minakshita R. Burungale
Shri. D. M. Burungale Junior
Arts & Science College
Shiggaon Dist. Buldana

Organizing Committee
Librarian
Dr. Ranjana K. Jawasgi
Shri. D. M. Burungale Science
& Arts College Shiggaon Dist.
Buldana



National Service Scheme (NSS)

The NSS unit of our college actively carried out different activities with strong student's response. Dr. G.D. Tambatkar worked as NSS program officer. Dr. R.J. Deshmukh was a NSS women program officer along with active members Prof. Y.P. Woyal and Prof. N.J. Thakare worked for national service scheme.

- 1) NSS started their work with Plantation program on 31st July 2021 as per the order of forest department of Maharashtra Government. Different varieties of plants planted in new college campus. Total 100 plants were planted.
- 2) "15 day of Cleanliness Program" was celebrated by College through the NSS unit during 1 August to 15 August 2021. On the occasion of inauguration function of this program Guests were explained importance of cleanliness and health.
- 3) NSS Day celebrated by NSS on 24th September 2021. During this program Dr. Padwal, NSS Buldana District Coordinator was gave their speech on Citizenship Amendment Act illusion and reality as chief guest.
- 4) Inauguration of RED Ribbon Club in collaboration with HIV-AIDS department of Saibai Mote general Hospital Shegaon.
- 5) COVID-19 Vaccination Camp, during these camp 70 students was beneficiary. They are vaccinated by CoviShield and Covaxin vaccines.
- 6) International AIDS Day Celebrated by Red Ribbon club of our college through NSS collaboration with Saibai Mote general Hospital Shegaon. On this occasion, the principal announced the office bearers of the Red Ribbon Club for the session 2021-2022 in the college and through Train to Trainer Mr. Ajay Deshmukh gave detailed information about HIV-AIDS and took an oath to spread this information to the society and spread awareness about this terrible disease.
- 7) National Voter Awareness 15 Day Celebration Program conducted by NSS.
- 8) Two students sent for Quiz competition organized by Red Ribbon Club.
- 9) Three student sent State level Essay Competition
- 10) Four students were sent for University level Disaster Management two day workshop.
- 11) Six students were sent for District level special labor camp "विशेष श्रमसंस्कार शिबीर"



- 12) Sant Gadge Baba Amravati University Amravati selected one NSS Student volunteer of or college Ms. Saloni Trivedi selected for National Integration Camp at Bhubaneswar for 10 student's team of our university representation this camp.
- 13) NSS camp of our college conducted during 28 March 2022 to 4 April 2022 at Adopted village Nagzari ta. Shegaon. Detail of this camp as follows.

Day-1- Gathering of Volunteers and Registration, preplanning of next day and clean hospitality area.

Day-2- The inauguration ceremony of the camp was held on the second day at 11 am. The program was presided over by Ramvijay Dnyaneshwar Burungale as the president and Mr. Saadhan Sonawane Tehsildar, Shegaon as the inaugurator and the District Coordinator of NSS Prof. Dr. Vishnu Padwal, Mr. Ganesh Kharap, Sarpanch Nagzari, Sevakram as the chief guests. Sardar, Deputy Sarpanch Nagzari and Principal of the college Dr. R.E.Khadsan were present during this function

Day-3- Yoga classes and prayers were conducted under the guidance of Prof. Dr. Ajay Wadekar, Yoga teacher from 5 to 6:30 in the morning. In the intellectual session today, Dr. PV Pingle gave a lecture on the need of physical education in life. At the same time, Prof. Dr. VK Gaikwad gave a lecture on the state and direction of the constitution. He asserted that a positive perspective should be created in the NSS volunteers.

Day-4- In the afternoon session, Prof. Shivaji College Chikhali. Dr. J. J. In his speech, Jadhav expressed his opinion on the subject of Citizenship Amendment Act illusion and reality. At the same time, Dr. Panjabrao Deshmukh, Rashtrasant Tukdoji Maharaj and



Sant Gadge Baba, who were born in Vidarbha land, reviewed the social and educational work of Dr. Panjabrao Deshmukh, Rashtrasant Tukdoji Maharaj and Sant Gadge Baba, adding spirituality to science. Ganesh Tambatkar, Cooperation Program Officer Prof. Yogesh Vial, Prof. Mayur Thackeray, Women Program Officer Dr. Reena Deshmukh were present. In the second lecture, Dr. Ramesh Rathod gave a





Disaster Management, Prof. Shankesh Zayte Snake Bite and Management while Prof. Shailendra Madavi gave guidance on First Aid and Bandage. Shekoti Geet and Kavi Samelan were presented by Volunteers.

Day-8- The closing ceremony was held today at 12:00 PM. Dr. R. E. Khadsan, the principal of the college, presided over the program. Chief guest on this occasion Prof. Dr. Deepak Nagar, Mr. Ganesh Kharap, Sarpanch Nagzari, Sevakram Sardar, Upasarpnach Nagzari and Principal Mr. PrabhakarAvakale were also present in the main presence. The students narrated their experience of seven days while the program officer Dr. G. D. Tambatkar read the report and all dignitaries expressed their views. Conducting the program Prof. Yogesh Vial and Prof. Mayur Thackeray expressed thanks.



NOTICE

All the students of B.Sc. Part I, II, III are hereby inform that their University Test Winter 2017 - I,III,V for the subject ENVIRONMENTAL SCIENCE will be held On Following Dates. Note all the concerns.

B.Sc.-I SEM-II 13/¹¹~~10~~/2017

B.Sc.-II SEM-IV 13/10/2017

B.Sc.-III SEM-VI 13/10/2017

Date :- 05/10/2017


HOD
D.L. Bhada
Asst. Professor & Head
Dept. of Environmental Science
St. D. M. Burungala Science & Arts
College, Bhagpur-844001 Dist. Nalanda



Shri.DnyaneshwarMaskujiBurungale Science & Arts College, Shegaon

B. Sc. -I (Semester - I)

UNIT TEST

SUBJECT: ENVIRONMENTAL SCIENCE
(2017-18)

Time : 2 Hours]

[Max. Marks : 30

Note :- Que. 1 is compulsory.

1. A) Fill in the blanks :

2

- The elevated portion of wave called Crest
- The periodic change in the level of water in oceans & seas called Tides
- Tundra soils support only Lichens and mosses
- Phryx and Stromboli of the mediterranean sea are examples of active volcano

B) Choose correct alternative :

2

- The height of spring tide is generally
 - 20 %
 - 25 %
 - 10 %
 - 15 %
- Continental shelf having depth of
 - 100 Fathom
 - 50 Fathom
 - 75 Fathom
 - 25 Fathom
- Dense forest canopy of evergreen forest comprises of:
 - Mahogany, Avony, Palm
 - Mahogany, Acacia, Coconut
 - Cincona, Musa sp, Teak
 - none of this
- Which of the following is not natural calamity?
 - Plane crash
 - Volcano
 - Cloud burst
 - Tsunami

c) Answer in one sentence :

2

- How many types of tides
- Define earthquake

2. a) i) Describe zonation of marine environment

3

ii) Explain tides & its types

3

iii) Describe tropical rainforest with respect to their distribution, climate & vegetation

3

iv) Describe taiga biome with respect to their climate & vegetation

3

OR

i) Describe marine food resources

3

ii) Explain physicochemical factors of marine environment

3

iii) Describe savanna biome in detail

3

iv) Describe tundra biome in detail

3

3. a) i) Define earthquake which are the causes & effects of earthquake

4

ii) Define cyclones with respect to their causes distribution types & effect

4

iii) Define environmental science explain structure of atmosphere

4

OR

i) Describe volcanos in detail

4

ii) Describe flood as geological hazards

4

iii) What is hydrosphere explain hydrological cycle

4

Shri.DnyaneshwarMaskujiBurungale Science & Arts College, Shegaon

Shital Dnyaneshwar Chavhan



Scanned with OKEN Scanner

Sant Gadge Baba Amravati University, Amravati
Record Of Internal Assessment Marks (S-2018)

Name of the College: Shri Dnyaneshwar Maskuji Burungale Science & Arts College, Shegaon

Class: B.Sc.I (Semester-II)

Subject: Electronics

Name of the Teacher:

Paper(with title): Basic Electronics

Sr. No.	Roll no.	Name of the Student	Assignment/Project Assignment Max.Marks:-	Seminar/Group discussion/Industrial Visit/Visit to educational institutes/research organization/field work etc. Max.Marks:-	Class test Max. Marks:-	Total Max. Marks:-
1	23761	Aashwini Shankar Donge	8	10		18
2	23743	Aman Rupchand Tayde	8	0		8
3	23762	Anita Niwruiti Mali	8	10		18
4	23746	Ankush Rajesh Shejole	8	7		15
5	23765	Ashwini Bhagwant Bhute	8	7		15
6	23766	Ashwini Gajanan Hage	8	7		15
7	23757	Ashwini Shaligram Rohankar	8	7		15
8	23769	Chaitali Chandrashekhar Mali	8	10		18
9	23770	Chaitali Sanjay Gavhale	8	0		8
10	23772	Dipali Ramsingh Thakur	8	10		18
11	23753	Dipali Vitthal Katkar	8	0		8
12	23754	Divya Anilrao Deshmukh	8	0		8
13	23775	Gauri Vijay Kalore	8	10		18
14	23777	Harsha Prakash Arbat	8	7		15
15	23758	Hitesh Nanakram Panjwani	8	10		18
16	23779	Kajal Narayanappa Kenekar	8	7		15
17	23759	Karan Arjun Wankhade	8	7		15
18	23782	Komal Dipak Mane	8	10		18
19	23784	Laxmi Gopal More	8	7		15
20		Manoj Balkrishna Ghenge	0	0		0

Name and Signatures of Teacher : 1. _____

2. _____

3. _____

Principal
 Shri.Dnyaneshwar Maskuji Burungale
 Science and Arts College, SHEGAON
 Dist - Buldhana

H.O.D.
 Signature of H.O.D.

Sant Gadge Baba Amravati University, Amravati						
Record Of Internal Assessment Marks (S-2018)						
Name of the College: Shri Dnyaneshwar Maskuji Burungale Science & Arts College, Shegaon				Subject: Electronics.....		
Class: B.Sc.I (Semester-II)				Paper (with title): Basic Electronics.....		
Name of the Teacher:						
Sr. No.	Roll no.	Name of the Student	Assignment/Project Assignment Max.Marks:-	Seminar/Group discussion/Industrial Visit/Visit to educational	Class test Max. Marks:-	Total Max. Marks:-
21	23786	Mohini Gajanan Chaudhari	8	10		18
22	23787	Neha Sandip Darade	8	7		15
23	23830	Neha Sunil Murarka	8	12		20
24	23788	Nikita Ganesh Sawale	8	10		18
25	23831	Nikita Haridas Bawaskar	8	10		18
26	23789	Pallavi Bhagwan Girhe	8	7		15
27	23835	Pawan Mahadeo Kalaskar	8	7		15
28	23790	Pooja Shivhari Ravankar	8	10		18
29	23791	Pragati Vishnu Digole	8	10		18
30	23792	Prajakta Mohan Rahate	8	10		18
31	23793	Pranjli Martand Bharsakle	8	7		15
32		Prashant Shrikrushna Gavhale	0	0		0
33	23794	Priya Ramkrushna Rohankar	8	10		18
34	23845	Radha Shyamrao Deshmukh	8	10		18
35	23795	Rajashri Kailas Sonavane	8	12		20
36	23797	Rajshri Ravindra Pandit	8	10		18
37	23796	Rajnandini Ganesh Bodade	8	7		15
38	23800	Ruchika Gopaldas Rathi	8	10		18
39	23801	Rupali Mahadev Masne	8	12		20
40	23852	Saurabh Sadanand Jadhav	8	0		8
Name and Signatures of Teacher: 1. _____						


Principal
 Shri.Dnyaneshwar Maskuji Burungale
 Science and Arts College, SHEGAON
 Dist - Buldhana


 Signature of H.O.D.

Sant Gadge Baba Amravati University, Amravati						
Record Of Internal Assessment Marks (S-2018)						
Name of the College: Shri Dnyaneshwar Maskuji Burungale Science & Arts College, Shegaon				Subject: Electronics		
Class: B.Sc.I (Semester-II)				Paper (with title) Basic Electronics		
Name of the Teacher:						
Sr. No.	Roll no.	Name of the Student	Assignment/Project Assignment Max.Marks:-	Seminar/Group discussion/Industrial Visit/Visit to educational institutes/research organization/field work etc. Max.Marks:-	Class test Max. Mark:-	Total Max. Marks:-
41	23803	Sharayu Pramod Pohare	8	10		18
42	23808	Shubhangi Ramkrushna Nandne	8	10		18
43	23860	Snehal Arun Metange	8	7		15
44	23810	Suchitra Pramod Hande	8	7		15
45	23811	Swati Ramnath Ingle	8	12		20
46	23812	Trupti Vitthal Dhage	8	7		15
47	23863s	Vaibhav Vasudeo Dhage	8	12		20
48	23816	Vaishali Tejrao Tayde	8	7		15
49	23813	Vaishali Vijay Gadkar	8	7		15
50	23817	Vaishnavi Ananta Metkar	8	10		18
51	23864	Vaishnavi Ananta Virokar	8	12		20
52	23818	Vaishnavi Ankush Deshmukh	8	10		18
53	23819	Vaishnavi Digambar Kathole	8	7		15
54	23823	Vaishnavi Mukunda Bathe	8	10		18
55	23824	Vaishnavi Narayan Huse	8	12		20
56	23825	Vaishnavi Vishvanath Bhilkar	8	10		18
57	23870	Vivek Shatrughan Virokar	8	10		18
58	23827	Yeshoda Bhagwan Mesare	8	10		18

Name and Signatures of Teacher : 1. _____

Principal
PRINCIPAL
Shri.Dnyaneshwar Maskuji Burungale
Science and Arts College SHEGAON
Dist - Buldhana

Signature of H.O.D.

Shri. Dnyaneshwar Maskuji Burungale Science & Arts College, Shegaon

Department of Environmental Science
University Test Attendance Session 2017-18

Sr.No	Name Of Student	Signature
1	Ku. Diksha Bharat Mohod	Bhagad
2	Ku. Harshada Rajesh Paul	Harshada
3	Ku. Manali Rambhau Puyad	Manali
4	Ku. Pallavi Ganesh Chavhan	Pallavi
5	Ku. Pooja Vinod Raut	Pooja
6	Ku. Pradnya Bhaskar Ganesh	Pradnya
7	Ku. Tejaswini Yadav Kharat	Tejaswini
8	Ku. Vaishali Gajanan Indure	Vaishali
9	Ku. Vaishnavi Gajanan Nikam	Vaishnavi
10	Ku. Vaishnavi Govindrao Lahane	Vaishnavi
11	Ku. Vaishnavi Rameshwar Dhanokar	Vaishnavi
12	Mr. Furquan Imam Khan	Furquan
13	Mr. Kartik Gajanan Satote	Kartik
14	Mr. Pawan Gajanan Waghmare	Pawan
15	Mr. Pratik Kishor Pardhi	Pratik
16	Ku. Afreen Anjum Mu Jawaaid	Afreen
17	Ku. Ankita Mukundrao Deshmukh	Ankita
18	Ku. Ashwini Ajay Kathole	Ashwini
19	Ku. Ashwini Sharad Kathole	Ashwini
20	Ku. Avanti Krushnarao Deshmukh	Avanti
21	Ku. Dipali Eknath Sadabal	Dipali
22	Ku. Dipali Gajanan Dahi	Dipali
23	Ku. Dipali Pramod Bhalerao	Dipali
24	Ku. Dnyaneshwari Arjun Tayde	Dnyaneshwari
25	Ku. Gayatri Sandeep Burungale	Gayatri
26	Ku. Harsha Sadhuram Gwalani	Harsha
27	Ku. Kanchan Baliram Thukekar	Kanchan
28	Ku. Komal Gajanan Raut	Komal
29	Ku. Manali Rajesh Amte	Manali
30	Ku. Monika Sanjay Dhamole	Monika
31	Ku. Monika Vijay Ingle	Monika
32	Ku. Pooja Vitthal Mhasal	Pooja
33	Ku. Pragati Shrikrushna Atrale	Pragati
34	Ku. Pratiksha Vijay Bhonde	Pratiksha
35	Ku. Radhika Purshottam Shegokar	Radhika
36	Ku. Radhika Rameshwar Palhade	Radhika
37	Ku. Rashmi Rajeshsing Dixit	Rashmi
38	Ku. Renuka Bhimrao Sathe	Renuka
39	Ku. Roshani Ramesh Wagh	Roshani
40	Ku. Saima Parveen Sk Jameel Sk	Saima
41	Ku. Samrudhi Dipak Dhamal	Samrudhi
42	Ku. Sangita Santosh Tayade	Sangita
43	Ku. Sayali Sanjay Shelke	Sayali
44	Ku. Shital Dnyaneshwar Wakle	Shital
45	Ku. Shital Ravindra Shegokar	Shital



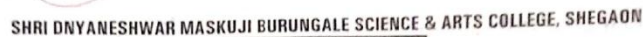
Scanned with Oken Scanner

46	Ku. Shivani Dinesh Gupta	Signature
47	Ku. Shivani Sudhakar Shinde	S.D. Gupta
48	Ku. Shivani Sunil Awachar	S.S. Awachar
49	Ku. Shraddha Arunrao Ambulkar	Ambulkar
50	Ku. Shubhangi Vitthal Bakal	S.B. Bakal
51	Ku. Sneha Santosh Navkar	S.N. Navkar
52	Ku. Vaishnavi Atmaram Gawande	V. Atmaram
53	Ku. Vaishnavi Bhaskar Bhamodre	V. Bhamodre
54	Ku. Vaishnavi Rambhau Ambuskar	V. Rambhau
55	Ku. Vrushali Bhagwan Raundale	V. Bhagwan
56	Mr. Datta Devidas Lokhande	D. Lokhande
57	Mr. Hariom Vishnu Dhumale	H. Dhumale
58	Mr. Kiran Gajanan Bodade	A.B.S.T.
59	Mr. Pankaj Naresh Shejole	P. Naresh
60	Mr. Rushikesh Vishnu Shejole	R. Vishnu
61	Mr. Saurav Gajanan Shegokar	S. Gajanan
62	Mr. Shubham Babulal Karate	A.B.S.T.
63	Mr. Vitthal Shankar Kokate	V. Shankar
64	Mr. Yashwant Vinod Dhanokar	Y. Vinod
65	Ku. Swati Vishwanath Hage	S. Vishwanath
66	Ku. Shivani Mohan Sanap	S. Mohan
67	Ku. Arti Bhagwan Wawge	A. Bhagwan
68	Ku. Kiran Suryaprakash Raut	K. Suryaprakash
69	Ku. Sneha Digamber Jadhav	S. Digamber
70	Ku. Ashvini Govindrao Gavhale	A. Govindrao
71	Ku. Pushpapuja Vilas Wankhade	P. Vilas
72	Ku. Vaibhavi Anil Solankar	V. Anil
73	Ku. Anjali Dnyaneshwar Nayse	A. Dnyaneshwar
74	Ku. Anamika Ratan Telgote	A. Ratan
75	Ku. Shubhangi Pramod Kathole	S. Pramod
76	Ku. Priyanka Vishnu Akhare	P. Vishnu
77	Ku. Durga Shiwaji Bawskar	D. Shiwaji
78	Ku. Vaishnavi Dipak Jamdar	V. Dipak
79	Ku. Vaishnavi Gajanan Tayde	V. Gajanan

Shinde



Scanned with Oken Scanner



- i) The elevated portion of wave called crest
- ii) The periodic change in the level of water in oceans & seas called tides
- iii) Jungles which support only lichens and mosses and stomholi of the Mediterranean Sea are examples of active volcano.
- iv) Dense forest canopy of evergreen forest comprises of Malayay Alany palm.



- iv) a) Plane crash is not natural calamity.
- v) ii) Earthquakes : An abrupt vibration or shuddering of ground's surface due to seismic waves produced by spasmodic displacement of rock masses floating on molten magma.
- vi) iii) Describe tropical rainforest climate with respect to their distribution, climate and vegetation.
- Location : i) The tropical rainforest climate or equatorial climate is located upto 5° to 10° latitudes on either side of equator.
- ii) At some places it extends upto 15° to 25° latitude on western margins.
- iii) This climate is characterized by northward and southward migration of the sun.
- iv) There are two main facts a) Uniformly high temperature throughout the year and b) abundant rainfall throughout the year received by convectional mechanism of precipitation.
- Distribution : This climate is distributed on either side of equator in the following localities -
- a) The Amazon basin in America.



- b) The Congo basin in Africa.
 c) The Guinea coast in Africa.
 d) Much of the Indomalaysian regions mainly Java, Sumatra, Borneo, New Guinea, Malaysia and some places in India.
 e) Philippine Island, Eastern Columbia, Eastern Central America and Western Madagascar.
 f) Some islands of Caribbean sea.
- Temperature :- i) This climate receives abundant insolation.
 ii) This climate does not give low temperature below 10°C .
 iii) The mean monthly range of temperature is 24° to 27°C .
 iv) The annual temperature increases upto 30°C .
 v) The nights are cold as 20°C , hence nights of this climate suffered as winter of the tropics.
- Vegetation :- i) The tropical rainforest climate is dominated by evergreen forest.
 ii) The vegetation of these biomes are arranged in four layers as a) Top layer in which the height of trees ranges from 30-60m, b) Medication layer in which height of plants ranges between 8-10m, c) The third layer is stratified layer and d) the fourth is ground grasses surface or layer.
 iii) The creepers are secondary dominant species of this climate.

- iii) Dense forest canopy of evergreen forest comprises of Mahogany, Ebony, palm.
- iv) Describe taiga biome with respect to their climate & vegetation.
- Location :- i) The taiga type of climate is totally absent in southern hemisphere because of narrow range of continents.
- ii) The taiga type of climate is located upto 50° - 55°N and 60° - 65°N on northward side.
- Distribution :- i) This climate is distributed over northern hemisphere in the following localities.
 a) North America, extreme northern parts of Canada, Siberia, Greenland, coastal areas, North Australia.
- Temperature :- i) This climate receives low insolation throughout the year.
 ii) The temperature ranges below freezing point.
 iii) The winter are so long and summers are short but cool.
 iv) At some places temperature increases in the month of July at 16°C but other places have temperature below freezing point in the month.

of July.

Vegetation : i) The taiga types of climate is dominated by coniferous trees.

ii) There are trees which appears conical shape at upper part due to persistent snowfall on them.

iii) There are shrubs, herbaceous plants, grasses etc.

iv) At some places there are cryophytes.

v) Due to very short growing period the vegetation is not so dense.

25) a) i) Define earthquake which are the causes & effect of earthquake?

→ Earthquake : i) An earthquake is an abrupt vibration or shuddering of ground surface by seismic waves produced by spasmodic displacement of rock masses.

ii) An earthquake releases tremendous amount of energy and the magnitude or intensity of energy released in earthquake is measured by Richter scale devised by Charles F Richter in 1935.

iii) The Plate tectonic theory is the most plausible explanation for earthquake.

iv) According to this theory, the earth consist of several rigid plates which floats on molten magma. The plates are a) American plate b) Indian plate c) Australian plate d) Pacific plate e) Antarctic plate f) Africa g) Eurasian plate and twenty minor plates.

Causes of earthquake: The earthquake can cause mainly by two factors that are a) Man-induced earthquake and b) Natural earthquake.

i) The construction of dams near mountains can cause earthquake.

ii) Volcanic eruption can cause earthquake.

iii) The earthquake can cause due to movement of plate tectonics in earth's crust.

iv) Isostatic imbalance can cause the earthquake.

Effects of earthquake:

i) Earthquake in sea can give rise to tsunami.

ii) Due to earthquake the major effects which damage the human settlements, kill animals, humans.

iii) Earthquake results in loss of lives in major quantity.

iv) The permanent deformation of human constructions like dams, power plants, bridges, etc.

v) Earthquake takes lives of lives, destroy roads, railway.

vi) The tsunami created due to earthquakes can damage the coastal areas near sea.

ii) Define cyclones with respect to their causes, distribution types and effects.

→ Cyclones: i) The cyclones are the whirling spirals of wind and rain born near the equator sea surface or oceans with closely related isobars.

ii) The cyclones are also called as hurricane, typhoons.

iii) The cyclones are classified as strong cyclones and weak cyclones.

Types: i) Weak cyclones: The weak cyclones includes

a) Tropical Disturbances

b) Tropical Depressions

ii) Strong cyclones: The strong cyclones includes

a) Tropical storm

b) Hurricanes / Typhoons

i) Weak Cyclones:

a) Tropical Disturbances: This cyclones are formed near the equator due to tropical disturbances.

b) Tropical Depressions: This cyclones are formed due to tropical depressions with the velocity of 40 to 50 km per hour.

ii) Strong cyclones:

a) Tropical Storm: This cyclones are created low pressure areas around itself. This storm runs at the velocity of 40 to 120 km/hr.

b) Hurricanes or Typhoons: This types of cyclones if created near the Japan are called as typhoons and if this cyclones are created near the Caribbean sea are termed as hurricanes. At some places it is also known as Willy-willy.

Cause of cyclones:

i) The cyclones can caused due to low atmospheric pressure.

ii) The cyclones can formed due much more rainfall.

iii) The cyclones can formed due to high velocity winds are moved in fast motion.

iv) The cyclones are formed when the heavy rainfall received.

Distribution of cyclones: The cyclones are distributed all over the world.



SHRI DNYANESHWAR MASKUJI BURUNGALE SCIENCE & ARTS COLLEGE, SHEGAON
ANSWER BOOK

Name of the Examination Ku. Anjali Dnyaneshwar Nayse
Class B.Sc. Medium Sem I Subject Environmental Science University Enrollment No. _____
Centre No. 333 Roll No. No. of Supplements used _____ Date 13-11-2017
Max. Marks _____ Marks Obtained _____
Sign. of Invigilator [Signature] Sign. of Valuer [Signature]

Effect of Cyclones :

- i) The cyclones can damage the coastal areas.
- ii) The cyclones are the major disaster which takes lots of lives.
- iii) The cyclones can create very high pressure near the sea surfaces.
- iv) The cyclones can destroy human settlements eg: Hurricane Katrina take lots of lives.
- v) The cyclones can give rise to heavy rainfall.

A
Seminar
On
“Sludge- Origin, nature, type, characteristic, treatment &
disposal ”

In partial fulfillment of requirements for the degree of
Bachelor of Science

submitted by
Ku. Pallavi R. Tathod

Under the Guidance of
Prof. S. B. Sonone



Department of Environmental Science
Shri Dnyaneshwar Maskuji Burungale Science & Arts College,
Shegaon-444203 Dist-Buldana (M.S.)
Academic Session: 2017 - 2018



Scanned with Oken Scanner

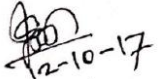
Shri. Dnyaneshwar Maskuji Burungale Science and Art's College
Shegaon Pin- 444203

DEPARTMENT OF ENVIRONMENTAL SCIENCE

CERTIFICATE

This is to certify that **Ku. Pallavi R. Tathod** is a student of B.Sc-IIIrd year / Semester Vth has satisfactorily completed the given Seminar on "**Sludge origin, nature, type, characteristic, treatment & disposal**" Science during session 2017-2018 as prescribed by Sant Gadage Baba Amravati University, Amravati.

Date of Submission :- 12/10/2017


Subject Teacher


Head of Department
Prof. Dr. D. L. Bhade



Acknowledgement

Department of Environmental Science give me opportunity to performing such activity. This activity helps me to improve my subject views . I have deepest sense of gratitude towards my honorable guest **Prof.S. B. Sonone** for valuable guidens , keen interest constructive criticism and cinstant inspersion throughout the course of Seminar work .

I feel equally indebted towards respected principal **Dr. R. E. Khadsan**, Shri Dnyaneshwar .Maskuji .Burungale. Science and Arts College Shegaon for his significant support and co-operated to success of this Seminar.

I deem it a great pleasure and privilege to offer my sincere and cordial thanks to respected **Prof. D. L. Bhade** for his constructive helps during Seminar work.

I also express my gratitude to all non-teaching staff for their nice co-operation.

I also thank to my colleagues and friends for their supportive help to completion of this Seminar.

My words fail to express my feeling in respect of my beloved parent who are providing constantencouragement and blessing.

Place:- Shegaon

Date:- 12/10/2017

Pattod
Pallavi Rajendra Tathod



Scanned with Oken Scanner

Table of Content :

Sr . no.	Content	Page no.
1)	Introduction	1
2)	Definition , Origin ,Nature	2
3)	Type of Sludge	3
4)	Charecteristic of Sludge	4
5)	Treatement and disposal	5
6)	Reference	6



Introduction

Sludge is a semi-solid slurry and can be produced as sewage sludge from wastewater treatment processes or as a settled suspension obtained from conventional drinking water treatment and numerous other industrial processes. The term is also sometimes used as a generic term for solids separated from suspension in a liquid; this 'soupy' material usually contains significant quantities of 'interstitial' water (between the solid particles).

Industrial wastewater treatment plants produce solids that are also referred to as sludge, whether generated from biological or physical-chemical processes.

1. Semisolid material such as the type precipitated by sewage treatment.
2. Mud, mire, or ooze covering the ground or forming a deposit, as on a riverbed.
3. Finely broken or half-formed ice on a body of water, especially the sea.
4. A semisolid mass composed of an aggregation of cells (such as red blood cells in blood vessels) or particulate matter (such as cholesterol crystals and calcium salts in bile).



Sludge :

Definition:

Sewage sludge is a solid, semisolid or liquid muddy looking residue that results after plain sewage is treated at a sewage plant. After being treated, the sewage may be spread on non-organic agricultural land as a fertiliser or dust suppressant.

Sludge refers to residual, semisolid material left from industrial wastewater or sewage treatment process.

Origin :

Along with Black Flag and Black Sabbath, musicians cited by pioneers of the style as influential include Mississippi John Hurt, Lynyrd Skynyrd, and Greg Ginn. Early sludge metal groups also borrowed from industrial music of SPK.

Nature :

When fresh sewage or wastewater is added to a settling tank approx. 50% of the suspended solid matter will settle out in about an hour and a half. This collection of solid is known as raw sludge. The sludge becomes putrescent in a short time once anaerobic bacteria take over.



Types of Sludge :

The volume of liquid sludge produced at a sewage treatment works usually represent approx. 1-2% of the total flow of sewage, but treatment and disposal can account for approx. 30-50% of the running costs of works. Sludge from conventional sewage treatment plants are derived from primary, secondary, tertiary treatment processes.

1) Primary Sludge :

Consisting largely of faecal solid and will also contain paper, sanitary and medical products, kitchen waste, grit and mineral matter. Pre-treatment i. e. inlet screening, grit removal trap will remove the vast majority of non-biodegradable material and should always be used whenever possible.

2) Humus Sludge :

Humus sludge is product of settlement of effluent from biological filters, submerged aerated filters and is mainly bacterial and fungal material sloughed from the filter. Atypical sludge contain 0.5-2.0% dry solid.

3) Surplus Activated Sludge :

In an activated sludge is the product plant polluting matter is transferred to the liquor suspended solid thus increasing its mass. To maintain an optimum level of mixed liquor suspended solid.



Characteristic of Sludge :

Sludge meta generally combines the slow tempos ,heavy rythums and dark ,pessimistic atmosphere of doom metal with the aggression ,shouted vocals and occasional fast tempos of hardcore punk as put it .The shorthand term for the kind of rock descending from early Black Sabbath and Black Flag is sludge ,because its so slow and dense .Many sludge bands compose slow spaced songs that contain brief hardcore passage . Mike Williams a founder of the sludge style and member of eyehategod , suggest that the moniker of sludge apparently has to do with the slowness ,the dirtiness .The fifth and general decadence the tunes convey .



Treatment and Disposal of Sludge :

Sludge is produced from treatment of wastewater on site and off site system . This is inherently so because a primary aim of wastewater treatment is removing solid from the wastewater . In addition ,soluble organic substance are converted to bacterial cells ,and latter is removed from the wastewater . Sludge is also produced from treatment of stormwater.

Bucket latrine and vault latrine store faecal sludge ,which needs to be collected and treated . This two types of latrine are discussed .Beause no treatment of involved at latrine . In the former case human excreta is deposited in a bucket and content of bucket is emptied daily ,usually at night giving the term night soil . characteristic of sludge vary widely from relatively fresh faecal material generated in bucket latrine to sludge which has undergone bacterial decomposition for over a year in a double pit latrine . the treatment required is therefore dependent on the characteristic of the sludge .The former contain large no of pathogen the latter will contain much less due to pathogens die – off .Sludge may be contaminated with heavy metals and other pollutant .Treatment of sludge contaminated with high concentration of heavy metals or toxic chemicals will be more difficult and the potential for re-use .



A
Project
On
“To Killed insect microorganism by using plant”

In partial fulfillment of requirements for the degree of
Bachelor of Science

submitted by
Ku. Disha P. Kadale
Under the Guidance of
Prof. D. L. Bhade



Department of Environmental Science
Shri Dnyaneshwar Maskuji Burungale Science & Arts College,
Shegaon-444203 Dist-Buldana (M.S.)
Academic Session: 2017 - 2018



Scanned with Oken Scanner

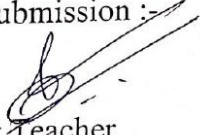
Shri. Dnyaneshwar Maskuji Burungale Science and Art's College
Shegaon Pin- 444203

DEPARTMENT OF ENVIRONMENTAL SCIENCE

CERTIFICATE

This is to certify that. **Ku. Disha P. Kadale** is a student of B.Sc-IInd year / Semester IIIrd has satisfactory complete the given Project Report on **"To Killed insect microorganism by using plant"**Science during session 2017-2018 as prescribed by Sant Gadage Baba Amravati University, Amravati.

Date of Submission :-


Subject Teacher


Head of Department

Prof. Dr. D. L. Bhade

Dr.D.L.Bhade
Associate Professor & HOD
Department of Environmental Science
Shri.D.M.Burungale Sci.& Arts College, Shegaon



Scanned with Oken Scanner

Acknowledgement

Department of Environmental Science give me opportunity to performing such activity. This activity helps me to improve my subject views . I have deepest sense of gratitude towards my honorable guest **Prof. D. L. Bhade** for valuable guidens , keen interest constructive criticism and cinstant inspresion throughout the course of Project work .

I feel equally indebted towards respected principal **Dr. R. E. Khadsan**, Shri Dnyaneshwar .Maskuji .Burungale. Science and Arts College Shegaon for his significant support and co-operated to success of this Project

I deem it a great pleasure and privilege to offer my sincere and cordial thanks to respected **Prof. P. L. Gawande & Prof. R. B. Barbade** for his constructive helps during Project work.

I also express my gratitude to all non-teaching staff for their nice co-operation.

I also thank to my colleagues and friends for their supportive help to completion of this Seminar.

My words fail to express my feeling in respect of my beloved parent who are providing constantan couragement and blessing.

Place:- Shegaon

Date:-



Aim:-

To killed insect microorganism by using plant

Requirment:-

Plant extract, beaker, leaf of plant , conical flask, spray, etc...

Theory:-

Plant extract are natural it to do not produce pollution it produce pollution it produce by plants.



Introduction :-

Aphids can be extremely economically damaging insect pests on crops worldwide and specifically in New York State. Alternative management strategies can help control aphid numbers and decrease the need for pesticide use and development of resistance to pesticides. One unexplored potential means of control pest is aphids are plant-associated bacteria. Many bacteria commonly found on plants can infect and kill some aphid species, but it is not known how broad these bacteria infect pests or how the bacteria kill insects. This project will determine if these bacteria can impact pest aphid species on crop plants grown in New York. This project will also investigate the molecular mechanism for insect killing by bacteria in order to better understand this interaction. The results of this work will provide a significant step forward in understanding how common plant associated bacteria impact aphids. This information will provide a basis for determining if the bacteria or a bacterial product could be used as an additional means of controlling populations of pest aphids.



Project :-

Methods

Objective 1 Efforts

Phase 1.1 - We will assay four *P. syringae* strains on six local crops suffering from aphid pests (snap bean, soybean, cabbage, potato, cucumber, and lettuce) to determine which strains persist on each crop and do not cause plant disease. We will test strains that are known to frequently grow on plant surfaces and that have been previously found to kill insects. To determine bacterial persistence, bacteria will be sprayed onto the top and bottom of the leaves to establish epiphytic populations. The plants will then be incubated at moderate humidity for 72 hours. At this time leaves will be collected and sampled for bacteria by sonication in buffer and subsequent plating to count bacterial colonies. To determine if strains can grow and cause disease in plants, bacteria will be introduced into leaves by infiltration and plants will be incubated in a growth chamber for 72 hours. At this point, leaf discs will be sampled at infiltration points and ground to release internal bacterial cells. Samples will be plated to quantify bacteria.

Phase 1.2 - We will determine the susceptibility of local pest aphids to *P. syringae* strains. We will collect aphids (soybean aphids, cotton (melon) aphids, green peach aphids, and cabbage aphids) from the field when they are locally abundant. Each aphid species will be assayed on a crop plants tested in Phase 1.1 above. These plants will either be sprayed with a suitable *P. syringae* strain (identified above as epiphytically persistent but not virulent to plants) at a high dose or a control of sterile buffer and allowed to dry before aphids are introduced to the plant. We will then track infection and death rates of aphids when fed on plants with bacteria compared to plants without over the course of 4 days using previously developed methods.

Phase 1.3 - We will further validate the results from Phase 1.2 using more natural conditions. For plant/bacteria/aphid combinations



that lead to aphid death and plant health, we will determine the feasibility of *P. syringae* as a biological control agent across a range of environmental conditions. For each plant/aphid/strain combination we will test the ability of *P. syringae* populations to infect and kill aphids at three different humidity levels (50%, 75%, and 95%). Plants will be sprayed with a moderately dense solution of bacteria, allowed to dry, and incubated at different humidity levels for 48 hours. We note that incubation at different humidity levels will result in different densities of bacterial cells on leaves. We will then introduce aphids onto the plant and track their survival for one week. At the end of the experiment we will sample aphids to determine their rate of infection and sample leaves to quantify bacterial densities. Differences in bacterial population sizes will be analyzed using ANOVA and aphid survival will be analyzed.

Objective 1 Evaluation This Objective will identify strains that may be useful in biological control; those that persist in high numbers of leaf surfaces and do not grow to high numbers in leaf tissue. Additionally, assays of virulence to aphids will identify combinations of plants/bacteria/aphids that lead to increased aphid death over controls and thus identify possible strains for use in biological control. These assays will also increase our knowledge of the breadth of insects that can be infected and killed by *P. syringae*.

Objective 2 Efforts

Phase 2.1 - To determine which *P. syringae* genes may be involved in killing aphids, we will sequence the transcriptomes of both high and low virulence strains as they are growing in aphids. We will choose two pairs of strains that are closely related but vary in virulence, identified in previous work. In total we will have two high and two low virulence strains, all with genome sequences published. We will infect pea aphids and allow the bacteria to grow for 48 hours. Bacterial cells will then be harvested from aphids and used to extract RNA. For each strain we will sequence three biological replicates. RNA will be sequenced using Illumina sequencing. Transcriptome data will be analyzed for differential expression using the program



EdgeR implemented within R and utilize published reference genomes for mapping reads. Phase 2.2 - Phase 2.1 will identify many genes that are differentially expressed in high or low virulence strains. We will attempt to limit the number of false positive candidate genes, genes that are differentially expressed but not responsible for virulence, by comparing pairs of strains that are closely related, but vary in virulence, to decrease the level of genomic and expression differences as much as possible. Furthermore, we will primarily focus on candidate genes that show similar patterns in both highly virulent strains compared to the low virulence strains, and that have a known function indicating a possible involvement with killing aphids. To confirm that these genes are necessary for aphid death, we will generate knockout mutants for candidate genes in *P. syringae* strains and test these for decreased virulence. *P. syringae* is genetically tractable and mutants can be easily made using established methods. Phase 2.3 - Where possible, for any genes confirmed as sufficient for aphid killing in Phase 2.2, we will isolate the product of that gene or metabolic pathway and determine if it is sufficient to kill aphids alone, using methods for aphid assays outlined above. If the product of interest is predicted to be a protein that may be toxic to the aphids, we will isolate the protein using established methods. If the candidate genes are predicted to produce some other type of compound, we will purchase the compound if available and test it in isolation from the bacteria. Objective 2 Evaluation We will analyze the data to determine which genes and metabolic activities are "turned on" by killing strains, but not low virulence strains, inside aphids and identify candidate genes that may be involved in virulence. We will confirm the function of these genes using genetic modification and experimental assays. This work will allow us to identify possible products and genes responsible for killing pest insects.



Observation:-

We observed on several times that the microorganisms are totally killed.

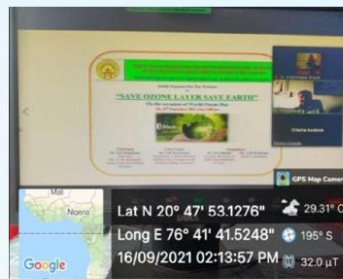
Result:-

The microorganisms are totally killed.



International Ozone Day:-

International Ozone Day celebrated by Department of Environmental Science on dated 16 September 2021 on online mode theme of the day was **"Save Ozone Layer Save Earth"** the guest for this program was Dr. S.R. Warhekar, Arts, Science and commerce College Kiran Nagar Amravati delivered the Guest lecture on Importance of Ozone Layer for Earth.



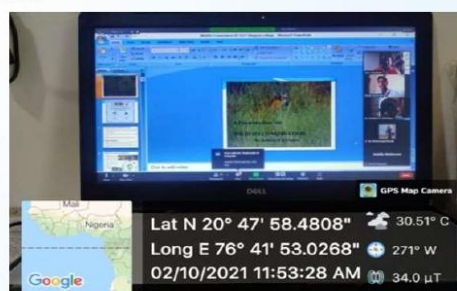
Wildlife Week Celebration (01 October to 07 October 2021)



Wildlife week 01 October to 07 October 2021 celebrated by department of environmental science of our college on online mode on first day the inaugural program and guest lecture conducted by Professor G.D. Muratkar the topic of guest lecture was "Role of Grassland in Wildlife Habitat Management."

Day-2

Day to 2 October, Dr SR Warekar, Assistant Professor Arts Science And Commerce College Kiran Nagar Amravati delivered guest lecture on "Wildlife Conservation and its management."



Day-3



03 October 2021, Educational tour jointly organized by department of environmental science and Nisargkatta Akola

to Ambabarwa forest Mr.Amol Sawant guided to students regarding to different species of flora and fauna in the forest and their role in development for forest Ecosystem total 13 student present and some teaching staff also present to the educational tour.

Department of Chemistry

Career Opportunities in Chemistry



Department of Chemistry organized webinar on "Career Opportunities in Chemistry" for B.Sc. chemistry students on 21th October 2021. A.B.Wadekar gave introductory speech and introduced to guest. Dr. Dinesh N. Sawant, Scientist, Organic Chemistry Division, CSIR, National Chemical Laboratory, Pune gives Information of various carrier

oriented Opportunities in Chemistry after Completion of B.Sc. in different Industries, Chemical Labs and research area etc, Also Sawant Sir shared fruitful knowledge to the students. All Students were so intentionally & enthusiastically attend this program. Dr.R.E.Khadsan, principal and Chairman of this program concluded this webinar in his presidential speech. Prof. Y.P.Wayal expressed vote of thanks

Educational Study Tour at Lonar Lake



Department of Chemistry organized educational study tour at Lonar Lake Lonar dist. Buldana on 19th December 2021. Aim of this tour to make aware students with historical and world level heritage of our area and introduced them about research field belonging to our own area. Many

researchers from various countries visited to this lake due to their uniqueness. Total 75 students along four departmental faculties were participated in this education study tour.

A
Field Work Report on Biodiversity in
Amba-barwa Wildlife Sanctuary



ESTD 1 Sept 2000



Department of Environmental Science

Shri. Dnyaneshwar Maskuji Burungale
Science and Art's College Shegaon,
Dist.-Buldana (M.S.)

HoD

Dr. D. L. Bhade
Shri. D. M. Burungale Science
and Art's College shegaon

Co-Ordinator

Mr. R. B. Barabde
Shri. D. M. Burungale Science
and Art's College shegaon



Late Reverend Father Shri.MaskujiBirujiBurungaleShikshanSanstha, Shegaon R.No.F-422.

SHRI. DNYANESHWAR MASKUJI BURUNGALE
SCIENCE & ARTS COLLEGE SHEGAON - 444203 Dist: BULDANA.

Ph.No. : + 91-07265-253959 Fax.No. : + 91- 07265-253959

(Affiliated to SantGadga Baba Amravati University, Amravati) [College Code No. 333]

Website : www.sdmbssc.org

Email : - sdmbshagaon@gmail.com

Shri.RamvijayDnyaneshwarBurungale
President

Dr.R.E.Khadsan

Dr. D. L. Bhade

Principal

HoD, EVS Deptt.

Email: - drkhadsan@gmail.com dlbhade@gmail.com

Mob. 09767317055

Mob. No. 9923317021

(NAAC Accredited with B⁺ Grade , C.G.P.A. – 2.65)

DEPARTMENT OF ENVIRONMENTAL SCIENCE

Out. No. SDMBSC/EVS/2021-22/

Date: - 01.10.2021

To,

The Principal

Shri. D.M. Burungale Science

and Arts College Shegaon

Subject:-To permit us for organizing Field visit at Amba-Barwa Wildlife Sanctuary (03/10/2021)

Respected sir,

With respect to above subject Department of Environmental Science of our college decided to organize
Field visit at Amba-Barwa Wildlife Sanctuary (03/10/2021) Time 9.00 AM.

So please give permission to organize this program.

Thanking you!

Date:- 01 /10 / 2021

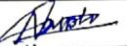
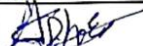
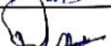
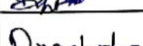
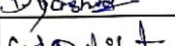
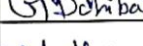
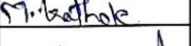
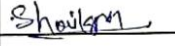
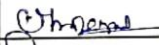
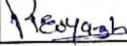
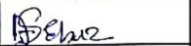
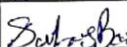
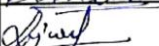
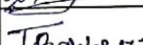
Mr. R.B. Barande

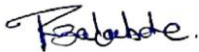
(Coordinator)

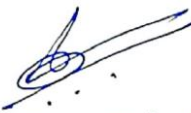
Dr.D.L.Bhade

(HoD)
Dr.D.L.Bhade

Assistant Professor & HOD
Department of Environmental
Sci D M Burungale Sci & Arts College, Shegaon

SHRI. D. M. BURUNGALE SCIENCE AND ART COLLEGE SHEGAON				
DEPARTMENT OF ENVIRONMENTAL SCIENCE				
Amba-barwa Wildlife Sanctuary Field Visit - 2021 - 22				
Student List			DATE - 03/10/2021	
Sr. No	Students Name	Signature	Remark	
1	Abhishek Dinesh Gupta			
2	Ankit Mahadeo Dhoran			
3	Dhiraj Santosh Maskar			
4	Dnyaneshwar Murlidhar Nile			
5	Ganesh Bhanudas Dahibhat			
6	Mahesh Gajanan Katole			
7	Mahesh Maroti Sangle			
8	Mudassir shaikh			
9	Om Ravindra Deshmukh			
10	Priyanshu Gupta			
11	Shaikh Arbaz			
12	Suhas Eknath Borokar			
13	Sujwal manoj bangar			
14	Tejas Bawane			
15	Vaibhav Baban Paturde			


R.B. Barabde.


Dr. D.L. Bhade
Assistant Professor & HOD
Department of Environmental
Shri D M Burungale Sci & Arts College, Shegaon

A

**Field Report On Biodiversity In Amba-barwa
Wildlife Sanctuary**



**Department of Environmental Science
Shri. Dnyaneshwar Maskuji Burungale Science and
Art's College Shegaon, Dist.-Buldana (M.S.)**

**Submitted By
Mr. Sujwal Manoj Bangar
B.Sc – II**

**HoD
Dr. D. L. Bhade
Shri. D. M. Burungale Science
and Art's College shegaon**

**Co-Ordinator
Mr. R. B. Barabde
Shri. D. M. Burungale Science
and Art's College shegaon**

Acknowledgement

Department of Environmental Science give me opportunity to performing such activity. This activity helps me to improve my subject views. I have deepest sense of gratitude towards my guide **Prof. R. B. Barabde** for his valuable guidance and keen interest constructive criticism and constant inspiration throughout the Field work.

I feel equally indebted towards respected Principal **Dr. R.E. Khadsan Shri. Dnyaneshwar Maskuji Burungale** Science and Art's College Shegaon for his significant support and co-operation to success of this Field work.

I deem it a great pleasure and privilege to offer my sincere and cordial thanks to respected Head of Department **Dr. D.L. Bhade** for his constructive help during Field work.

I also express my sincere thanks to **Prof. P. L. Gawande, Prof. Y. M. Kuchar**, for their supporting helps.

I also express my gratitude to all teaching and non-teaching staff and library staff for their cooperation.

I also thank to my colleagues and friends for their supportive help to completion of this Field work.

My words fail to express my feelings in respect of my below parent who are providing constant encouragement and blessings.

Place:- Shegaon

Date:- 09 / 10 / 2021



Signature of student

Shri Dnyaneshwar Maskuji Burungale Science and Art's
College Shegaon, Dist. Buldana-444203



DEPARTMENT OF
ENVIRONMENTAL SCIENCE



CERTIFICATE

This is to certify that Ms/Mr. **Sujwal Manoj Bangar** of B.Sc.- Ist / IInd / IIIrd
Semester – I / II / III / IV / V / VI has satisfactory complete the fieldwork on
“**Biodiversity of Amba-Barwa Wildlife Sanctuary** ” in the subject
Environmental Science during session 2021 - 2022

Date of Submission :- 09 / 10 / 2021

Subject Teacher
Mr. R. B. Barabde

Head of Department
Dr. D. L. Bhade

Field Report

The **Amba Barwa Wildlife Sanctuary** is situated in Satpura hills of the Buldhana District of Maharashtra. It is a part of the Melghat Tiger Reserve. The sanctuary area includes a Reserved forest of 102.10 sqkm, Protected forest 22.62 Sq. km. and remaining land is private cultivation and *Abadi* lands from ex-forest villages of *Ambabarwa*, *Chunghadi* and *Rohinkhed* of Sangrampur Taluka of Buldhana District.

The Sanctuary is under the Chief Conservator of forest and Field Director, Melghat Tiger Reserve with headquarters at Amravati.

The sanctuary is 65 km from the Shegaon. The tourist zone of the sanctuary is 21.26 Sq. km comprising eight forest compartments. The other tourist attraction are *Mangri Mahadev Mandir*, *Jalkakund*, *Pipladokhora*, and *Chimankhora*.

Plants of Amba Barwa:-

1) Teak Plant :-

Scientific name: *Tectona grandis*

Higher classification: *Tectona*

Rank: Species

Family: Lamiaceae

Kingdom: Plantae

Order: Lamiales

Teak is a tropical hardwood tree species in the family Lamiaceae. It is a large, deciduous tree that occurs in mixed hardwood forests. *Tectona grandis* has small, fragrant white flowers arranged in dense clusters at the end of the branches. These flowers contain both types of reproductive organs.

2) Arjuna Plant :-

Scientific name: *Terminalia arjuna*

Family: Combretaceae

Higher classification: Tropical almond

Rank: Species

Kingdom: Plantae

Order: Myrtales

Terminalia arjuna is a tree of the genus *Terminalia*. It is commonly known as arjuna or arjun tree in English.

3) Dhawda Plant :-

Scientific name: *Anogeissus latifolia*

Higher classification: *Anogeissus*

Rank: Species

Family: Combretaceae

Order: Myrtales

Anogeissus latifolia is a species of small to medium-sized tree native to the India, Nepal, Myanmar, and Sri Lanka. Its common names are axlewood, bakli, baajhi, dhau, dhawa, dhawra, or dhaora, takhian-nu, and raam. It is one of the most useful trees in India.

4) Salai Plant :-

Scientific name: *Boswellia serrata*

Higher classification: *Boswellia*

Rank: Species

Family: Burseraceae

Kingdom: Plantae

Boswellia serrata is a plant that produces Indian frankincense. The plant is native to much of India and the Punjab region that extends into Pakistan.

5) Mango Plant :-

Scientific name: *Mangifera indica*

Family: Anacardiaceae

Higher classification: *Mangifera*

Rank: Species

Kingdom: Plantae

Order: Sapindales

Mangifera indica, commonly known as mango, is a species of flowering plant in the family Anacardiaceae. It is a large fruit tree, capable of growing to a height of 30

metres. There are two distinct genetic populations in modern mangoes – the "Indian type" and the "Southeast Asian type".

Animals In Amba – barwa:-

1) Deer :-

Scientific name: Cervidae

Speed: Reindeer: 60 – 80 km/h

Gestation period: Reindeer: 222 days

Height: Reindeer: 85 – 150 cm

Higher classification: Pecora

Family: Cervidae; Goldfuss, 1820

Deer or true deer are hoofed ruminant mammals forming the family Cervidae. The two main groups of deer are the Cervinae, including the muntjac, the elk, the red deer, and the fallow deer; and the Capreolinae, including the reindeer, white-tailed deer, the roe deer, and the moose.

2) Bear :-

Scientific name: Ursus

Speed: Brown bear: 56 km/h

Height: Brown bear: 70 – 150 cm

Gestation period: Brown bear: 180 – 270 days,

Higher classification: Bears

Family: Ursidae

Ursus is a genus in the family Ursidae that includes the widely distributed brown bear, the polar bear, the American black bear, and the Asian black bear. The name is derived from the Latin ursus, meaning bear.

3) Wolf :-

Eats: Deer, Hares, Moose, Arctic fox, Elk, Bison, Beaver, Rodents, Ungulate

Height: 80 – 85 cm (Adult, At Shoulder)

Scientific name: Canis lupus

Mass: 30 – 80 kg (Male, Adult), 23 – 55 kg (Female, Adult)

Length: 1 – 1.6 m (Adult)

Conservation status: Least Concern

The wolf, also known as the gray wolf or grey wolf, is a large canine native to Eurasia and North America. More than thirty subspecies of *Canis lupus* have been recognized, and gray wolves, as popularly understood, comprise wild subspecies. The wolf is the largest extant member of the family Canidae.

4) Leopard :-

Speed: 58 km/h (Maximum, Running)

Mass: 31 kg (Male, South Africa's coastal mountains population), 23 – 27 kg (Female, Somalia population)

Trophic level: Carnivorous

Scientific name: *Panthera pardus*

Length: 90 – 160 cm (Adult, Head and body)

Height: 60 – 70 cm (Male, Adult, At Shoulder), 57 – 64 cm (Female, Adult, At Shoulder)

Lifespan: 12 – 17 years

The leopard is one of the five extant species in the genus *Panthera*, a member of the cat family, Felidae. It occurs in a wide range in sub-Saharan Africa, in some parts of Western and Central Asia, Southern Russia, and on the Indian subcontinent to Southeast and East Asia

5) Tiger:-

Conservation status: Endangered (Population decreasing)

Length: 2.5 – 3.9 m (Male, Adult), 2 – 2.8 m (Female, Adult)

Scientific name: *Panthera tigris*

Height: 80 – 110 cm (At Shoulder)

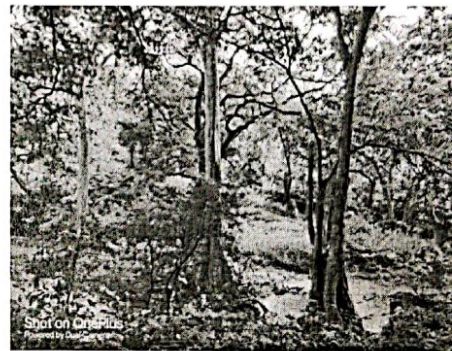
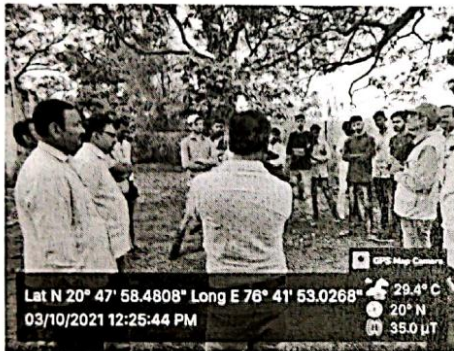
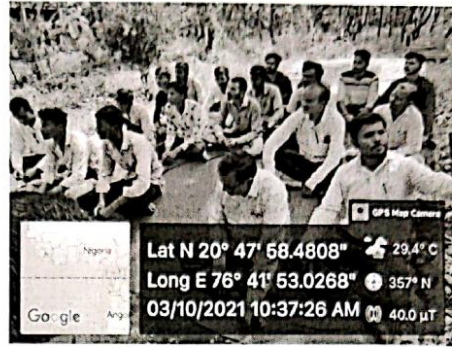
Mass: 90 – 310 kg (Male, Adult), 65 – 170 kg (Female, Adult)

Speed: 49 – 65 km/h (In Short Bursts)

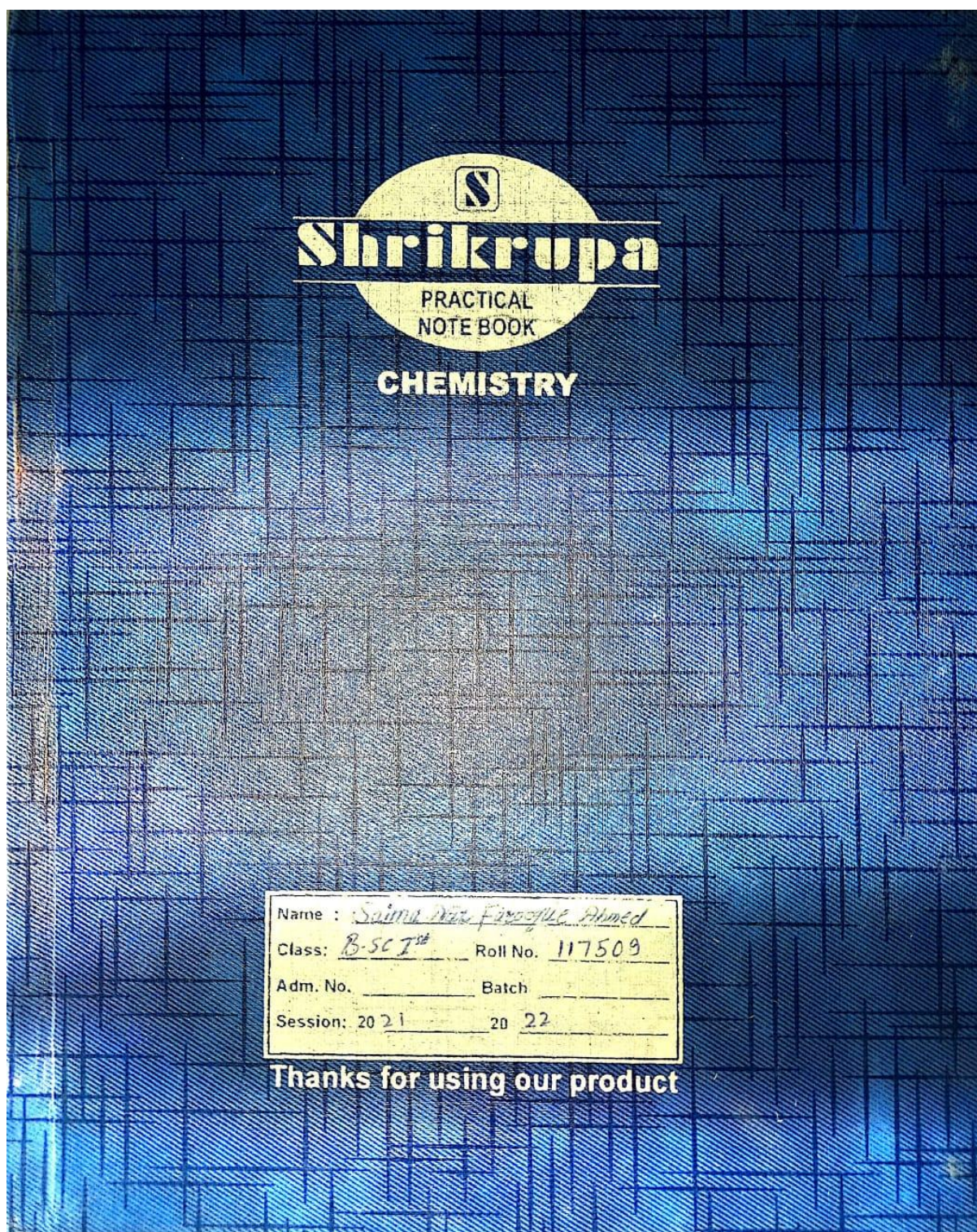
Size of territory: 60 – 100 km² (Male, Adult), 20 km² (Female, Adult)

The tiger is the largest living cat species and a member of the genus *Panthera*. It is most recognisable for its dark vertical stripes on orange fur with a white underside. An apex predator, it primarily preys on ungulates, such as deer and wild boar.

Photo Gallery



Journal Writing



Certificate

Certified that the Practicals written in this practical notebook is satisfactorily performed by

Master/Miss Saima Naz ²⁰ Farooque Ahmed

Class B.Sc. Ist Sec - Roll. No. 117509

During the Academic session 2021 - 2022

22/03/22

Date


Prof. Y.P. Wayal
Assistant Professor
Department of Chemistry
Shri D.M. Burungale Science
& Arts College, Shrigaon

Seal of School / College

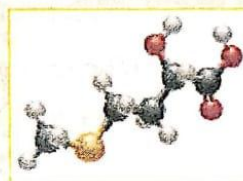
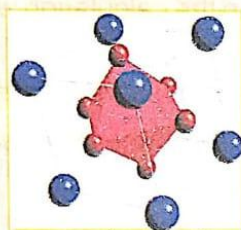

Sig. of H.O.D. / Principal

Dr. G. D. Tambatkar
HOD & Assistant Professor
Department of Chemistry
Shri D.M. Burungale Science
& Arts College, Shrigaon

Shrikrupa

Shrikrupa

CHEMISTRY PRACTICAL NOTE BOOK



Antoine Laurent Lavoisier (1743-1794)
Founder of Modern Chemistry

NAME Saima Naz D/o Feroogue Ahmed

CLASS B.Sc. Ist SEC. -

SUBJECT Chemistry

SCHOOL / COLLEGE Shei D.M. Buxungale, science,
and Arts college, shegan

INDEX

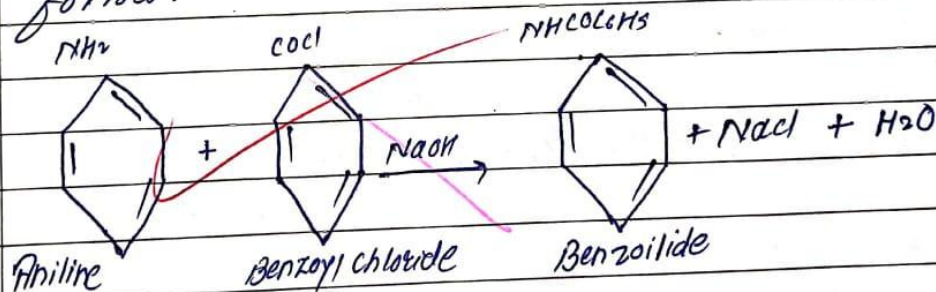
S.N.	DATE	PAGE	NAME OF THE EXPERIMENT	TEACHERS REMARK & SIGNATURE
		1	<u>Organic</u>	
1		1	Preparation of Benzanilide from aniline	
2		3	Preparation of Benzoic acid from benzaldehyde	
3		6	Preparation of Benzoic acid from benzamide (hydrolysis)	
			<u>Inorganic</u>	
4		9	To detect two acidic radical and two basic radical from given mixture 1)	
5		14	To detect two acidic and Two basic radicals (mixture 2)	
6		20	To detect two acidic and Two basic from given mixture (mixture 3)	

Name of Practical

Experiment no. 1

Aim → preparation of benzamide from aniline.

Theory → The introduction of benzoyl group (C_6H_5CO) replace of active hydrogen of OH , NH_2 or NH group is known as benzoylation reaction. The reaction somewhat similar to acetylation aspect that here the rearrangement use is benzoic chloride in presence of $NaOH$ and not benzoic anhydride benzoylation in presence of $NaOH$ is known as scotton baumann reaction. The reaction of benzoyl chloride with aniline can be represented as follow.



Apparatus → 10ml conical flask with stopper measuring cylinder, beaker etc.

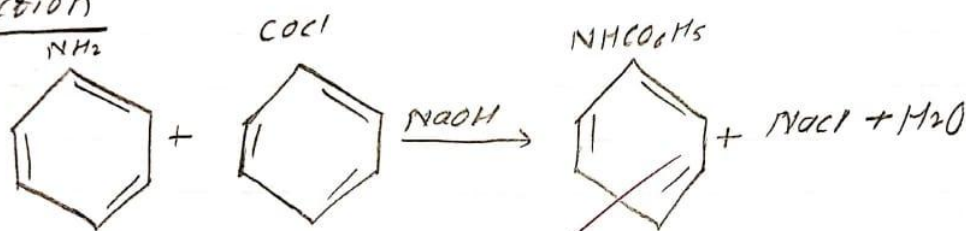
Teacher's Signature _____

Experiment No. 1

Aim → Preparation of benzanilide from aniline.

Apparatus → 10ml conical flask with stopper, measuring cylinder, beakers.

Reaction



Aniline

Benzoyl chloride

Benzanilide

Calculation

i) Molecular weight of principle reactant (Aniline) = 93 g/mol



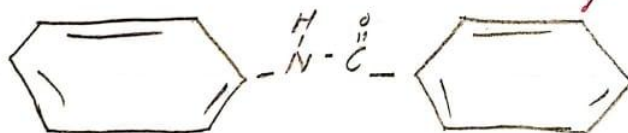
$\text{C}_6 + \text{N}_1 + \text{H}_7$

$6 \times 12 + 1 \times 14 + 1 \times 7$

$72 + 14 + 7$

$= 93 \text{ g/mol}$

ii) Molecular weight of product = 197 g/mol



$\text{C}_{13} + \text{N}_1 + \text{O}_1 + \text{H}_9$

$13 \times 12 + 14 + 16 + 9$

$= 197 \text{ g/mol}$

iii) density of aniline is = 1.02 g/mol

$$\text{density} = \frac{m}{V}$$

Chemical $\rightarrow$ Aniline, benzoyl chloride 10% NaOH solution.

Procedure $\rightarrow$ In 10ml conical flask take 1ml aniline 10ml 10% NaOH solution & 1.5 ml of benzoyl chloride all at the same time conical flask and shake it vigorously for about 15min. when crude benzoyl anilide separate as well white solid. The completion of the reaction is indicated by the disappear of pungent smell of benzoyl chloride dilute the reaction mixing with water and filter through small funnel dry to the crude product and weight recrystallized the crude benzaldehyde from alcohol find melting point of crystallized product.

Result $\rightarrow$

yield of crude benzanilide = 2.128

percentage yield of crude product = 98.14%

melting point of crystallized product = 160°C

Seen

Teacher's Signature _____