<u>2018-19</u>

Activity: Industrial Visit to BEC Foods

No. of Students: 23 Place: BEC Foods, Kuthrel (Durg) Date: 29th Dec 2018 Being students of Industrial Microbiology, this visit to BEC Foods, Kuthrel (Durg) on 29th Dec 2018 was helpful in better understanding of various concepts of food processing and packaging. There were 23 students

Industrial Visit at BEC Foods on 29th Dec 2018



from B.Sc-I, B.Sc-II & B.Sc-III year Industrial Microbiology Department and two faculty members. The officer's in charge Mr. Amitesh Mishra at BEC Foods introduced us to their technical staff and Production senior D.D. Mr. Manager Ghosh Sir explained all technical the information related to milk pasteurization, and processing packaging, starter culture preparation for fermentation, curd. chilli paste, and juice The concentrate. purpose of this visit provide was to an exposure to students about practical working environment and enhance their knowledge. It was also helpful in encouraging our students to pursue entrepreneurial journey

for the creation of affordable food products addressing the needs of of society.

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<u>2019-20</u>

Activity: Training program on Mushroom Production at Krishi Vigyan Kendra, Rajnandgaon

No. of Students: 28 Date: 31st January, 2020 Place: KVK, Rajnandgaon



The training programme on mushroom production was organized by Department of Industrial Microbiology in association with Home Science Department, Indira Gandhi Govt. Arts and Commerce PG College Vaishali Nagar, Bhilai and conducted at KVK, Rajnandgaon on 31st January, 2020. There were 28 students participated in the training program on mushroom production. The Scientific officer, Mr. Jitendra Meshram Sir introduced us to various department including poultry farm, botanical garden, pulses agriculture field and fisheries. The training program was also helpful in encouraging our students to pursue entrepreneurial journey for the creation of affordable and nutritious food products for the human diet.

The training program included theory and practical classes 1. Introduction to mushroom and its beneficial role in human diet



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- 2. Varieties of mushroom available in worldwide and Chhattisgarh
- 3. Introduction and identification of poisonous mushroom



4. Production of spawn using fungal culture



5. Chemical treatment and sterilization of paddy straw

6. Three different methods of mushroom production, namely layer method, mixing method, grouping method and packaging techniques



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7. Explanation on harvesting time and methods.



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Webinar

Title: Intellectual Property Rights: Patenting in India

Date of the Programme: 12th June 2021

No. of Participants: 48

Indira Gandhi Government Arts & Commerce PG College, Bhilai Carrier guidance and placement cell in association with Industrial Microbiology Department has jointly organized a Webinar on Intellectual Property Rights: Patenting in India on 12th June 2021.

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\bigcirc	Indira Gandhi Govt. Arts & Comm P. G. College, Vaishali Nagar, Bhilai National Webinar			
C	Intellectual Property Righ	ts: Patenting in India		
Organized by				
	Department of Industrial Microbiology & Placement Cell			
	12 th June 2021, Time 03:00 PM			
	RESOURCE PERSON			
	Ms. Anamika Dalui,	PATRON		
	(IP Officer)	Dr. Smt Alka Meshram (Principal)		
	International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad.	Indira Gandhi Govt. Arts & Comm P G College, Vaishali Nagar, Bhilai		
	Registration Link:			
	https://forms.gle/ZiHhGWcBGEnhnM3r7	E-certificate will be		
	o join the Webinar on Google Meet, click https://meet.google.com/roq-jhob-fij			

The program started with introduction of webinar on Intellectual Property Rights: Patenting in India given by Dr. Ajay Kumar Manhar, Assistant Professor and Assistant Coordinator, Placement Cell of Indira Gandhi Government Arts & Commerce PG College, Bhilai followed by welcome speech of Principal Ma'am, Dr. (Smt.) Alka Meshram. The resource person, Ms. Anamika Dalui, IP Officer from International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad has enlightened the students and the faculty members with enormous knowledge on the various intellectual property rights and patent in the Indian system. The

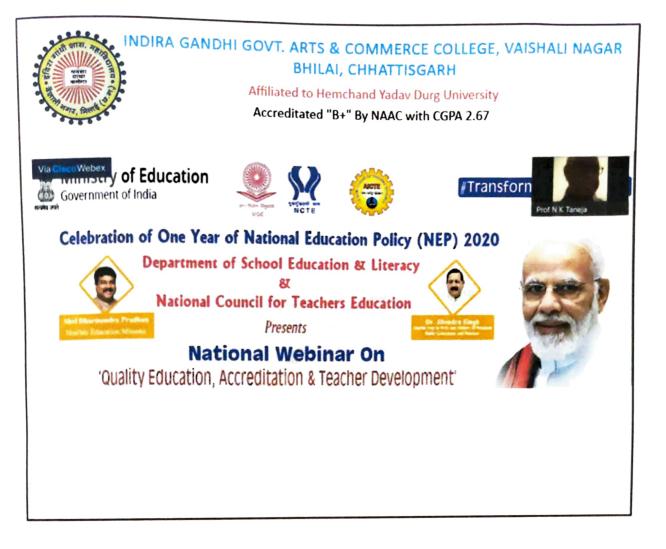




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Title: Celebration of One Year of National Education policy (NEP) 2020

Date: 10th Aug 2021

No. of Participants: 22

Venue: Indira Gandhi Govt. P.G College Vaishali Nagar, Bhilai (C.G)

The webinar on Quality Education, Accreditation & Teacher Development was organized jointly by the Department of Home Science and Industrial Microbiology to celebrate one year of National Education Policy (NEP 2020). The program started with introduction to NEP by Dr. Arti Diwan, Head of the Department, Home Science followed by the welcome speech of Principal Ma'am, Dr. (Smt.) Alka Meshram. The principal ma'am spoke about the vision and necessary information included in the NEP 2020. The speakers, Dr. Merily Roy, Head of Department of English focused on Quality Education and Accreditation process at various levels

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followed by Dr. Shikha Shrivastava speech on classroom management and teacher development. Dr. Kailash Sharma, Head of Department of Hindi gave opinion on necessary steps needed to implement the vision of NEP. Finally, Dr. Ajay Kumar Manhar, Head Department of Industrial Microbiology presented the slides of Teacher and Teaching Methods, Content and Curriculum; Learning Environment; Leadership management; Inclusion and Provision of equal opportunities; Developing a culture of innovation and Standards Dr. Ajay Kumar Manhar also for teachers. informed about skills such as Collaboration and solving and logical problem work; team reasoning; vocational exposure; digital literacy, coding and computational thinking; scientific and and creative thinking; evidence based innovativeness; ethical and moral reasoning, including knowledge and practice of human and constitutional values etc. The program ended with a question and answer session followed by vote of thanks proposed by Dr. Ajay Kumar Manhar. The session was extremely useful for all the participants.



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Conveners

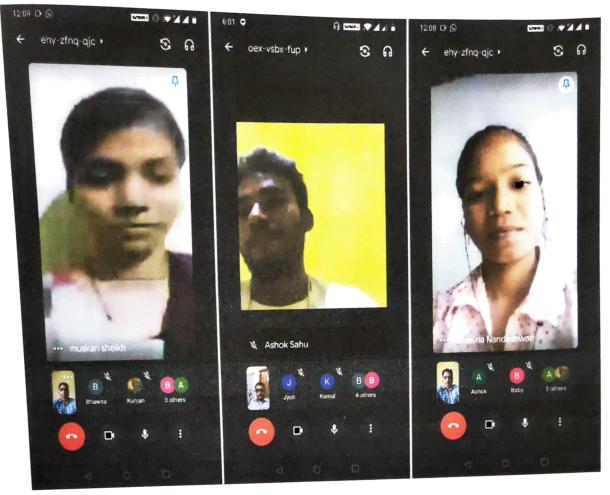
Dr. Arti Diwan (HoD, Home Science)

Dr. Ajay Kumar Manhar (HoD, Department of Industrial Microbiology

Head



Student Seminar/Presentation



Student presentation/Seminar by B.Sc-I Industrial Microbiology 2020-21

Topic: Development of Industrial Microbiology

Date: 02 Nov 2020

A online seminar was organized for Students of B.Sc-I Industrial Microbiology 2021. The students presented the contribution of Louis pasteur, Antonie van Leewenhoek and Robert Koch in the development of Industrial Microbiology

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Student presentation/Seminar by B.Sc-II Industrial Microbiology 2019-20

Topic: Kreb's Cycle

Date: 05 Dec 2019



Student presentation/Seminar by B.Sc-III Industrial Microbiology 2018-19

Topic: Sulphur Cycle

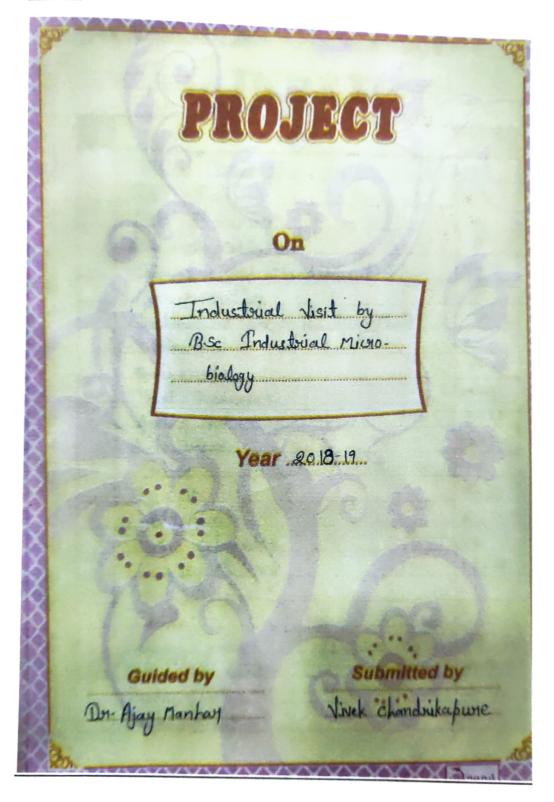
Date: 07 Jan 2019

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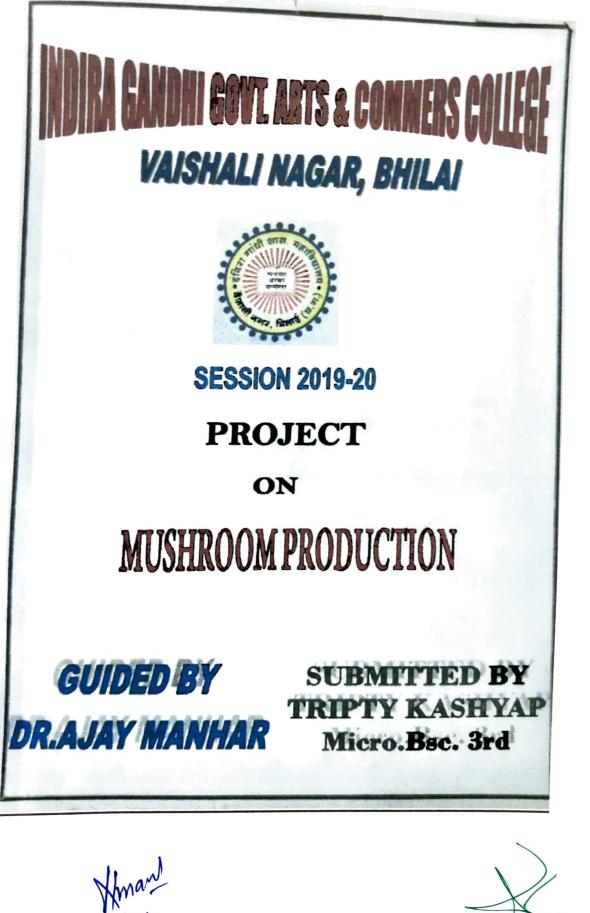
Projects done by the students of B.Sc-III Industrial Microbiology

2018-19



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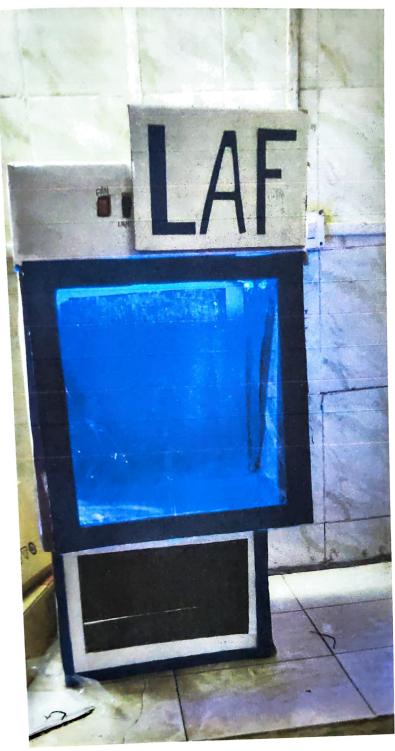
INDIRA GANDHI GOVT. ARTS & COMMERCE COLLEGE, VAISHALI NAGAR BHILAI,



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2020-21



A Laminar Air Flow (LAF) model was constructed for the study purpose by the final year B.Sc III Industrial Microbiology students. The model was useful to demonstrate the principle and function of LAF. The advantage of this model was to avoid the lethal effect of UV exposure.

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Skill Development training

Title: Intellectual Property Rights: Patenting in India

Date of the Programme: 12th June 2021

No. of Participants: 48

Indira Gandhi Government Arts & Commerce PG College, Bhilai Carrier guidance and placement cell in association with Industrial Microbiology Department has jointly organized a Webinar on Intellectual Property Rights: Patenting in India on 12th June 2021.



The program started with introduction of webinar on Intellectual Property Rights: Patenting in India given by Dr. Ajay Kumar Manhar, Assistant Professor and Assistant Coordinator, Placement Cell of Indira Gandhi Government Arts & Commerce PG College, Bhilai followed by welcome speech of Principal Ma'am, Dr. (Smt.) Alka Meshram. The resource person, Ms. Anamika Dalui, IP Officer from International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad has enlightened the students and the faculty members with enormous knowledge on the various intellectual property rights and patent in the Indian system. The

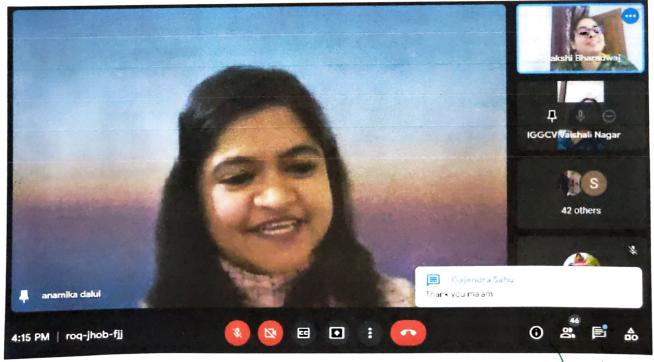
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Head Dept. of Ind. Micro Biology Indira Gandhi Govt. P.G. College Vaishali Nagar, Bhilai

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resource person gave valuable inputs to help students to effectively prepare for the patent examination such as Patent Agent Examination. Ms. Anamika Dalui also described the criteria of patentability and procedure for obtaining Patent in India. The program ended with a question and answer session followed by vote of thanks proposed by Dr. Meenakshi Bharadwaj (Assistant Professor, Department of Botany).





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Join the talk on Google Meet: https://meet.google.com/rtc-fzhi-cxg

A online Guest Lecture was delivered by Dr. Rahul Kumar (Post Doctoral Researcher) from National Institute of Plant Genome Research (NIPGR), New Delhi on 07th Dec 2020 on the topic "Molecular Cloning and its application". The students from the Department of Industrial Microbiology, Govt. P.G. College, Vaishali Nagar learnt the basics of cloning techniques and its application in the study of plant pathogens. Dr. Rahul Kumar also explained the functions of DNA and its isolation techniques.

Title: Molecular cloning and its application

Date: 07th Dec 2020

No. of participants: 12

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- 5. Dr. S. K. Das , Asst. Prof.- Geography 6. Dr. Alpa Shrivastava, Asst. Prof Chemistry 7. Dr. Ajøy Kumar Manhar, Asst. Prof Microbiology
- 1. Dr Girish Singh, Prof. (Sociology) 2. Dr Kiran Ramteke, Asst. Prof. (Pol. Science)
- 8. Dr Sushila Sharma , Asst. Prof. (Economics) 4. Dr. M. S. Patel, Asst. Prof. (Commerce)
- Dr. M. S. Patel, Asst. Prot. (commerce)
 Sent Koushalya Shashtri, Asst. prof. (Hindi)
 Shri Dinels K. Soni, Asst. Prof. (Commerce)
 Shri Mahesh K. Alandra, , Asst. Prof. (Sanshrit)
 Shri Yashwant K. Deshmukh , Sports Officer

Shri Suresh Kumar Thakur Asit Prof - Computer Science Indira Gandhi Govi Arts & Comm P.G.College, Vaishali Nagar Bhilai Dist - Durg - Chhatissgarb Mobile Number - 7000630446 Email id webinar.jgecv@gmail.com

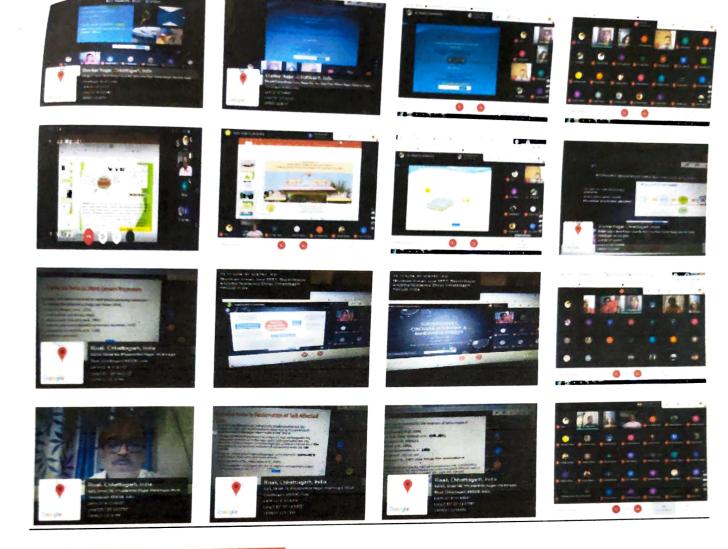
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Join us on Google Meet link at 11:15 AM - https://meet.coogle.com/pof-bnor-isd



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Click on For Registration -



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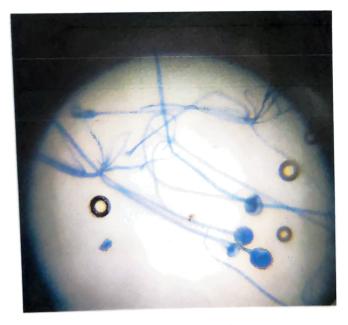
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Guest Lecturer Organized (2018-19)

A guest lecture was delivered by Dr. Meenakshi Bharadwaj Ma'am on 18th Jan 2019 on the topic "Fungi and its Characteristics" at the Department of Industrial Microbiology, Govt. P.G. College, Vaishali Nagar. The students learnt the characteristics and classification of Fungi. The students also observed the Rhizopus sp. isolated from spoiled food source under microscope.





Rhizopus Sp. observed under Microscope

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<u>Quiz</u>

In our department of Industrial Microbiology, Govt. P.G College, Vaishali Nagar, Bhilai (C.G) a National Science Day was celebrated. The Department has organized Inter-departmental Online Quiz competition on 1st March 2021 based on 2021's theme: Future of Science, Technology, and Innovation: Impacts on Education, Skills, and Work. The objective of thisday is to motivate the

Winners	Name	
1 st Prize 2 nd Prize 3 rd Prize	Baby Rai Fiza Quraishi Minal Lac Aafreen Hussain	Subjects B.Sc I yr Industrial Microbiology B.Sc I yr Industrial Microbiology B.Sc IIyrBiology B.Sc I yr Biology
	Bhumika Jain Shrishti Mishra Shweta Maurya Durga Nishad Payal Dewangan	B.Sc IIIyr Industrial Microbiology B.Sc IIIyr Industrial Microbiology B.Sc III yr Industrial Microbiology B.Sc III yr Biology M.Sc I Sem Chemistry

Winners of Online Quiz competition 2021



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1st Prize for Online Quiz competition 2021



1st Prize for Online Quiz competition 2021

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Indira Gandhi Government Arts and Commerce College, Vaishali Nagar

Add on Course-Life Science

<u>Report</u>

Title of the programme: Add-on course in Life Science

Duration: 30 hours

Number of students participated: 40

No. of students passed in exam: 13

An add-on course in Life Science was organized by the Life Science Club of the College comprising of Department of Botany, Zoology and Industrial Microbiology. The course was organized for the students aspiring for competitive exams specially Public Service Commission Exams, to teach the fundamental topics in Biology which are included in the General studies syllabus of such exams. Students were asked to register for the course through google form. 30 hours of teaching was distributed according to the time table. Topics were taught by Faculty of Botany, Zoology and Industrial Microbiology of the college. At the end of the course an online test was conducted in google form. The students who passed with a minimum marks were given certificates.

Link for Test -https://docs.google.com/spreadsheets/d/1_IZZI1b8kKgeTupfQISEYRpY9fM2A-KtFqCbUoWUi-c/edit?usp=sharing

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IDAC Coordinator Indira Gandhi Govt. P.G. College Virishali Negar, Elvina

Dept. of Botany Indira Gandhi Govt. P.G. College Vaishali Nagar, Bhilai

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