

VIJAYGARH JYOTISH RAY COLLEGE

Affiliated to the University of Calcutta

Accredited by NAAC with Grade B+

Estd. 1950

Supporting document for 2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies used for enhancing learning experiences using ICT tools

Address: 8, 2, Jadavpur Central Rd, Bijoygarh, Jadavpur, Kolkata, West Bengal 700032

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VIJAYGARH JYOTISH RAY COLLEGE

Phone: 033-2412-4082

(Affiliated to The University of Calcutta) 8/2, BEJOYGARH, JADAVPUR, KOLKATA-700 032

EXPERIENTIAL LEARNING

Rajyani musy

Student Seminar

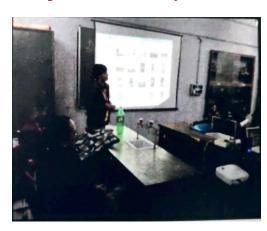
Department of zoology On 2018



Department of Botany On 2018



Department of Botany On 2019



Rajyani musy

Department of zoology On 2019



Department of History on 09.07.2021



Student Presentation by the Dept. of History on 9th July 2021

Rajyani musy

Department of Chemistry on 07.10.2021



Department of Bengali on 29.12.2021





Department of Bengali, VJRC has organized a student

Rajyaeri pressy

Department of Botany



Dept. of Botany: 5th Oct.



Rajyani musy

Department of Physics on 25.06.2021 & 14.12.2021



The Department of Physics has organized a Students' Seminar on 25th June, 2021



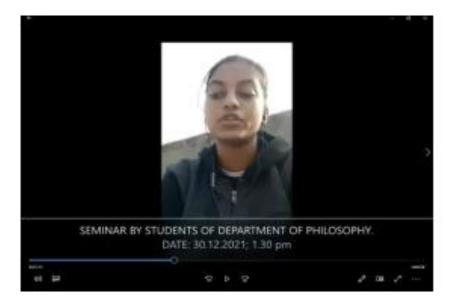
The Department of Physics has organized a Students' Seminar on 14th December, 2021

Department of Political Science on 28.06.2021



Rajyani musy

Department of Philosophy on 30.12.2021







Link for recorded session of the above event:

https://drive.google.com/file/d/12fV12liGNV4oM26BRvVfHYs7poC6ARa/view?usp=sharing

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STUDENT SEMINAR

Date: 20.05.2022

Place: Vijaygarh Jyotish Ray Colleg Venue: (Room no. 309) Time: 12.00 pm onwards



ORGANIZED BY

DEPARTMENT OF PHILOSOPHY Vijaygarh Jyotish Ray College

Dr. Raysan Neogy Brincipal Viewsonh Jyotish Ray

Chief Patron

Organizing members Dr.Laxmi Saha(Co-Ordinator and HOD)
Mrs Mamata Mandal(Observer)
Mrs Rinku Basu(Observer)
Mrs. Baisali Bayathowdhury (Observer)

NOTICE

09.05.22

VIJAYGARH JYOTISH RAY COLLEGE DEPARTMENT OF PHILOSOPHY

All the students of semester 6th,4th and 2nd (Philosophy Honours) are hereby informed that a Student Seminar will be held on 20.05.2022 in room no. 309 from 12 pm.

So, all the students are requested to come to the college on the scheduled date for the seminar without fail.

> Laxemi'Sake HOD

Department of Philosophy

Rajyani musy

Department of Zoology



On 01.04.2022



On 01.04.2022

Rajyani musy

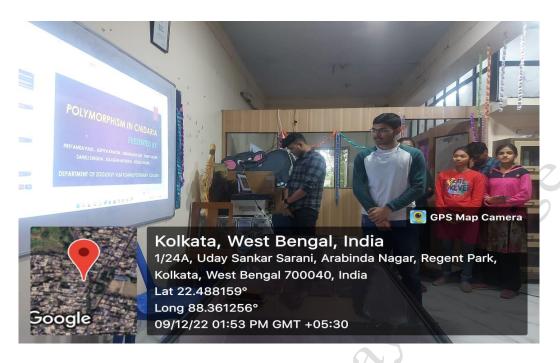


On 01.04.2022

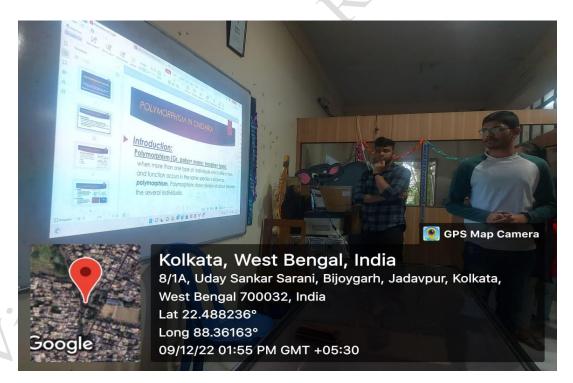


On 01.04.2022

Rajyani muss



On 09.12.2022



On 09.12.2022

Rajyani musy

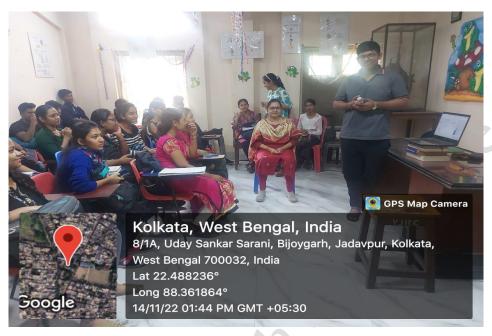
Department of English on 28.04.2022





Rajyani musy

Open House Discussion on 14.11.2022

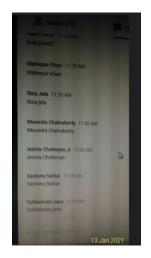




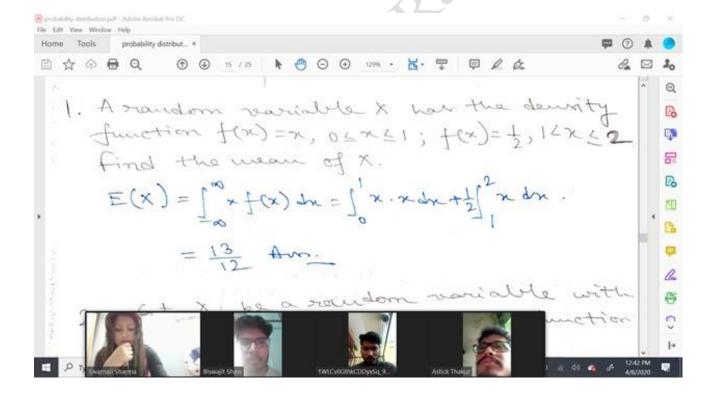
Rajyaeri muses

Online Classes On Google Meet



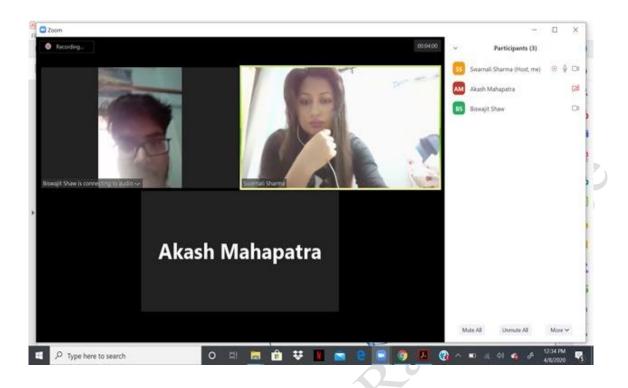


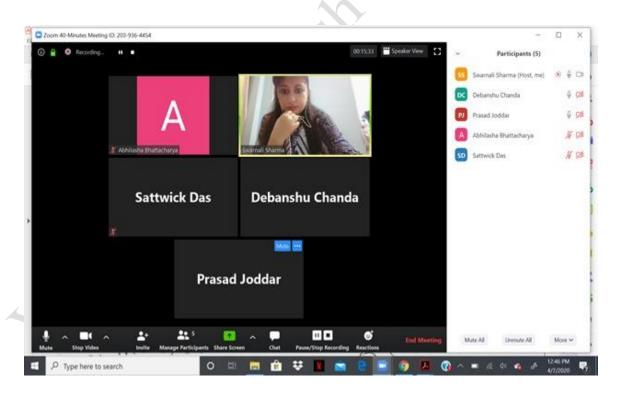




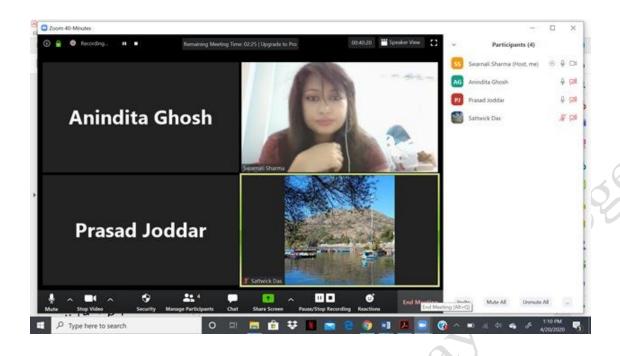
Rajyaeri pressy Principal Vijaygath Jyolish Ray College

Kolkata-700 032





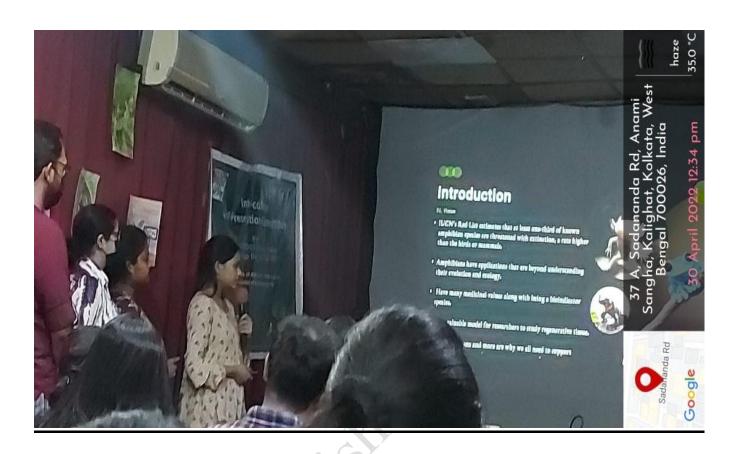
Rajyani musy



Films and audiovisuals are shown on 30.04,2022



Rajyaeri moss





Rajyani musy

Photography contest for Students using ICT



Digital Phonebook Inauguration by Chief Guest Dr. Debkumar Mukhopadhyay
Vice Chancelor, Cooch Behar Panchanan Barma University

Guest Speaker: Mr. Rangan Datta, Travel Writer & Photographer







Organized by: Science innovation Centre, Department of Journalism & Mass Communication & IQAC, Vijaygarh Jyotish Ray College with Curious Innovators for Research, Study & Action (CIRSA) VIPHET Reg. No.: VP-WB 0110

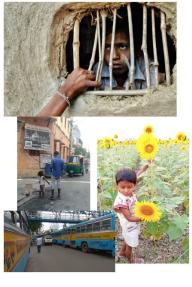




Digital Photobook Inaugumtion by Chief Guest Dr. Debkumar Mukhopadhyay

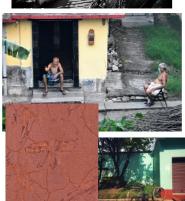
VucChassina Cook bibler Inschanas berne University

















Rajyani musy



Our library website link:

https://sites.google.com/view/vjrclibrary/

During the COVID-19 pandemic, there was an increased demand for free resources and digital learning products. We had tried to reach more and more students and serve our level best through this digital repository initiative.

Through this site, our students and teachers can get links of lots of open access books and journal databases in one window.

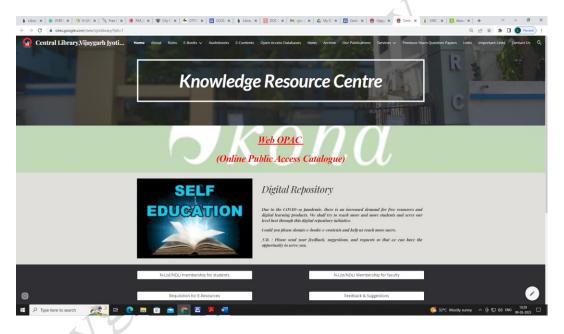


Fig.1. library homepage

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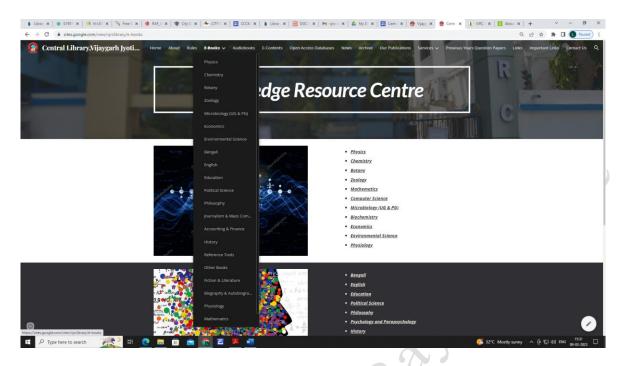


Fig..2. e-book database

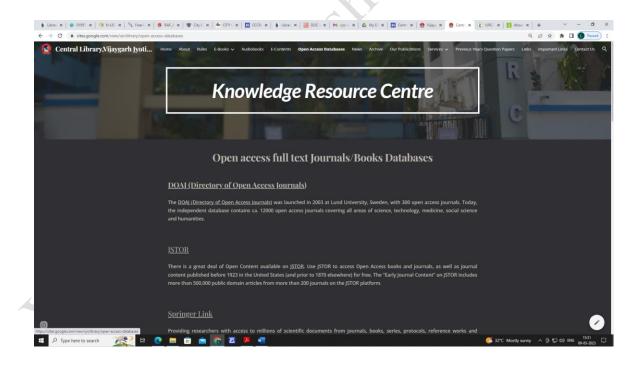


Fig.3. links of open access journals and e-book database

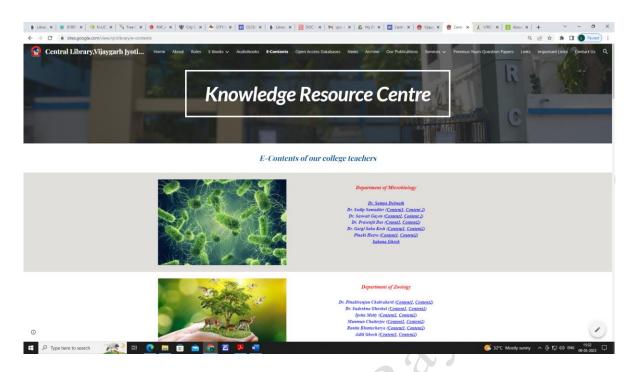


Fig. .4. E-contents of our Teachers

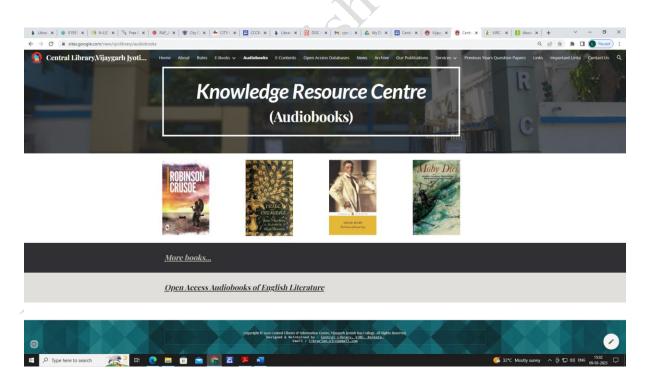


Fig.5. link of open access audio books

Rajyaeri messy

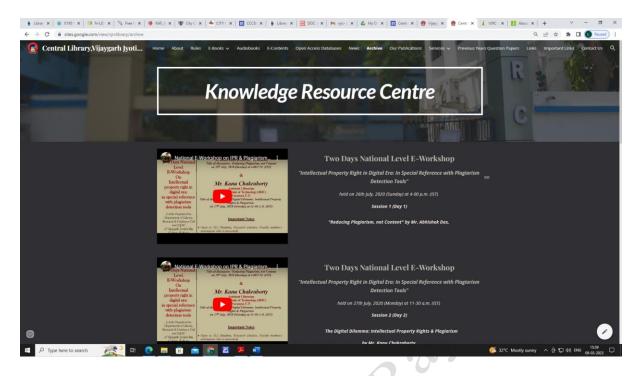


Fig.6. library orientation programmes in various burning topics

Info graphic design of Study Materials by Department of Economics





Microteaching by Department of Chemistry on 07.10.2021





Mock Teaching Session by Students of Department of Zoology, 2019





Rajyani muss

Field Trips, Excursion And Educational Tour

Student's field visit was organized by the Department of Bengali & Education on 26.05.2022&27.05.2022









Rajyani pressy

Long Educational Excursion by Department of Botany to Henry Island, Bakkhali on 7th-8th April,2022







CERTIFICATE



Rajyani musy

Field Visit was organized by Department of Botany on 16.02.2022









Twitter Link: https://twitter.com/vjrcsmc/status/1495779534993768451

Twitter Link: https://twitter.com/vjrcsmc/status/1513563463376723969

Twitter Link: https://twitter.com/vjrcsmc/status/1518488895108751360

Twitter Link: https://twitter.com/vjrcsmc/status/1521410605193736192

Rajyani moss

<u>Dept. of Botany organized a laboratory visit of Dr. Sudipta Ray</u> (Asst. Prof, Botany, Ballygunge Sc. College) on 02.05.2022







Rajyani musy

Industrial visit, Department of Microbiology on 26th & 29th April, 2019













Rajyani musy

A factory visit as part of a field trip at Coca-Cola Factory was organized by the Dept. of Microbiology, VJRC, on 14.05.2022.







Rajyaeri musy

Name of the Institute: Vijaygarh Jyotish Ray College Address of the Institute: 8/2 Bejoygarh, Jadavpur, Kolkata-700032

SI.	Name of Visitors	Qualification	Contact No.	Expectation	Signature
1	Dr. Sampa Debnath	Teacher	9433170705	Lab visit for academic purposes	Sanba Delnosh
2	Dr. Saswati Gayen	Teacher	9831720803	Lab visit for academic purposes	Saswati Gayen
3	Dr. Prasenjit Das	Teacher	9433285855	Lab visit for academic purposes	Prosenit Dan
4	Dr. Shilajit Barua	Teacher	8240168290	Lab visit for academic purposes	The state of the s
5	Miss Sahana Ghosh	Teacher	8017033099	Lab visit for academic purposes	Sahana Ghosh
6	Arpan Baidya	Student (BSc 4th Sem)	6289624235	Lab visit for academic purposes	ATRAN BAJDUA
7	Mohit Kumar Choubey	Student (BSc 4th Sem)	7439616955	Lab visit for academic purposes	Mohit Kr. Chauble
8	Reya Mukherjee	Student (BSc 4th Sem)	8584962534	Lab visit for academic purposes	
9	Anish Ghosh	Student (BSc 4th Sem)	7439171163	Lab visit for academic purposes	Keya Mukherjee
10	Sohini Aich	Student (BSc 4th Sem)	6289498199	Lab visit for academic purposes	Myoh Ablash
11	Debarati Jana	Student (BSc 4th Sem)	8670128182	Lab visit for academic purposes	Solvini Hich
12	Ankurendu Chakraborty		8697226896	Lab visit for academic purposes	Debarah Jana
13	Subhankar Maity	Student (BSc 4th Sem)	9647095908	Lab visit for academic purposes	Anturendy Chakraborty
14	Rajdip Saha	Student (BSc 4th Sem)	8584046612	Lab visit for academic purposes	Rajdy Saha.
15	Ayantanu Mondal	Student (BSc 4th Sem)	7478793996	Lab visit for academic purposes	Sudankon Maity.
6	Anisha Paul	Student (BSc 4th Sem)	7980988090		Avantanii Mondal
7	Sankalita Paul	Student (BSc 4th Sem)	8777540187	Lab visit for academic purposes	Hnisha Paul
8	Rahul Ganguly	Student (BSc 4th Sem)	9748558772	Lab visit for academic purposes	Somkalita Paul
1	Diya Aich	Student (BSc 4th Sem)	BORONS CONTRACTOR CONT	Lab visit for academic purposes	Raful Gongaly
1	Puspita Roy	Student (BSc 4th Sem)	7595855461	Lab visit for academic purposes	Dina Aich
1	Biswarup Biswas	The state of the s	7595095347	Lab visit for academic purposes	Puspita Ray.
1	Swastika Banerjee	Student (BSc 4th Sem)	9093279885	Lab visit for academic purposes	
-		Student (BSc 4th Sem)	7044509893	Lab visit for academic purposes	(1 1)
-	Suhrita Paul	Student (BSc 4th Sem)	6295692981	Lab visit for academic purposes	0 1 1 1 1
	Ahana Mandal	Student (BSc 4th Sem)	8777826274	Lab visit for academic purposes	Suprita Vaul.
A	nirban Chakraborty	Student (BSc 4th Sem)	6290333752	Lab visit for academic purposes	Ahana Maudal Onivitor Chalinationhy

HEAD
DEPARTMENT OF MICROBIOLOGY
VUAYGARH JYOTISH RAY COLLEGE
KOLKATA - 700032 hipta Kobon Denik Debonath Steejan Basu Tunir Bid Broadonin Factoria Sayan Dallek Student (BSc 4th Sem) 8777380027 Lab visit for academic purposes
Student (BSc 4th Sem) 9007128515 Lab visit for academic purposes
Student (BSc 4th Sem) 9330125056 Lab visit for academic purposes Arpita Kabasi 27 Usnik Debnath 28 Sreejani Basu 29 Tunir Bid 6290837096 Lab visit for academic purposes Student (BSc 4th Sem) 7044546878 Lab visit for academic purposes 6296363602 Lab visit for academic purposes 30 Shrabonti Pramanik Student (BSc 4th Sem)

Student (BSc 4th Sem)

DR. PRASENJIT DAS

Student (BSc 4th Sem) 8335902494 Lab visit for academic purposes Student (BSc 4th Sem) 6289018085 Lab visit for academic purposes 33 Sohini Guha 34 Sharifah Khatun Tishon Southan 34

Sayan Datta

Arijeet Malo

31

32

Student (BSc 4th Sem) | 7811852991 | Lab visit for academic purposes Student (BS: 4th Sen) 8017922975 Lab viert for occidence purposer

R. PRASE

Sisha Sankan

Sommi Gruns

Rajyani musy

Department of Zoology on 27.05.2022





Rajyani musy

Department of Mathematics, Physics, Chemistry & Physiology on 19.05.2022





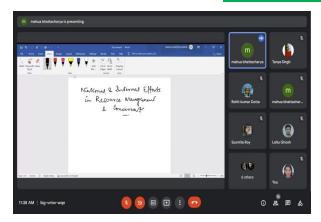
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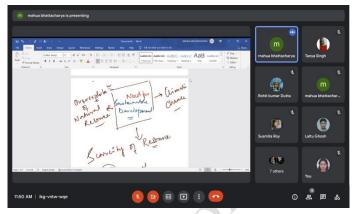




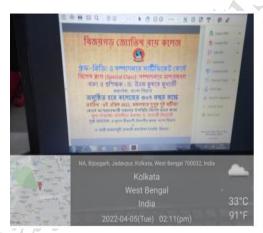
Rajyaeri pressy

USE SMART BOARD





Proof Reading Session by Students of Department of Bengali on 01.04.2022 & 05.4.2022





Rajyani mossy







Class in Add on course using projector

VIDEO LECTURE (By our faculty, Medium - Youtube

https://youtu.be/H7Kpx80Zu4w

https://youtu.be/qCG0Z5Fp_WI

https://youtu.be/FOcS2nfCfGk

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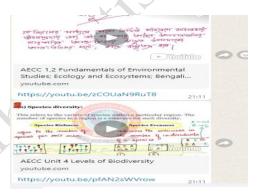
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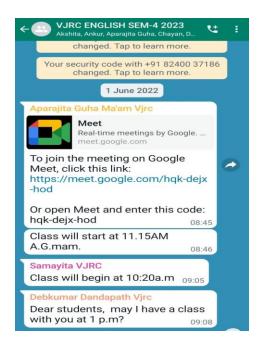
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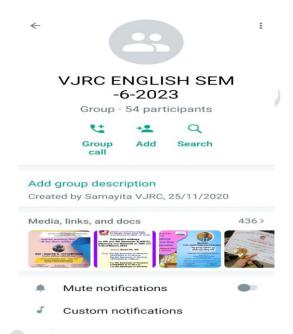
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WhatsApp communication with

WhatsApp students' group

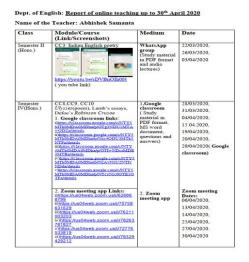
students





Dept. of English: Report of online teaching up to 30th April 2020

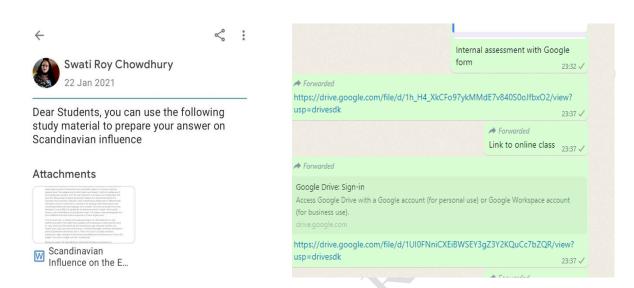
Name of the Teacher: Abhishek Samanta





Rajyani musy

Link to online class



Poster Making by student



Rajyani mus

IMPACT OF INVASIVE SPEC Man) Post Graduate Department of Zoology, Dinabandhu Andrew	ita Ghosh			
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Model making by student on 28.02.2022



Rajyani musy



LECTURE SERIES

Organised By- Department Of Education In Collaboration IQAC Vijaygarh Jyotish Ray College

Platform: Google	Meet	27/12/2021			
PROGRAMME SCHEDULE					
Time	Subject	Name Of The Facilitator			
		Inaugural address by Dr. Rajyasri Neogy, Principal, VJRC			
06.00PM-	Inaugural Address and	Welcome address by			
06.15PM	Introduction to Counselling	Dr. Amalendu Mazumder, HOD Education,			
	Programme	VJRC			
		Speech by IQAC Coordinator:			
	40.	Dr. Sampa Debnath			
		Dr. Gour Sundar Ghosh, Assistant Professor,			
06.15PM-	Lecture On: Grading and Credit	HOD Education, Ananda Chandra College,			
07.15PM	System	Jalpaiguri, , West Bengal			
	44				
07.15PM-	Interactive Session	Sk. Rafique Ahmed			
07.30PM	40				

Platform: Google Meet			28/12/2021				
	PROGRAMME SCHEDULE						
	Time	Subject	Name Of The Facilitator				
	06.00PM- 06.15PM	Inaugural Address and Introduction to Counselling Programme	Inaugural address by Dr. Amalendu Mazumder, HOD Education, VJRC				
	06.45014		T =				
	06.15PM- 07.15PM	Lecture On: : Educational Sociology and Sociology of Education	Dr. Ajit Mondal, Assistant Professor, West Bengal State University, Barasat, West Beng				
અલ્ય	07.15PM- 07.30PM	Interactive Session	Sk. Rafique Ahmed				

Principal Vijaygarh Jyotish Ray Chilege Kolkata-700 032

Platform: Google Meet 29/12/2021
PROGRAMME SCHEDULE





LMS

LINK: https://vijaygarhjrcollege.com/clg_lms/



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WORKING PROCEDURE OF LEARNING MANAGEMENT SYSTEM



2. Here is the Dashboard of LEARNING MANAGEMENT SYSTEM



3.How to Add Questi ons for Online Test (Step by Step)







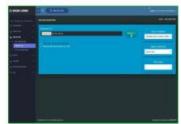


How to Upload CSV Files of question to the system.

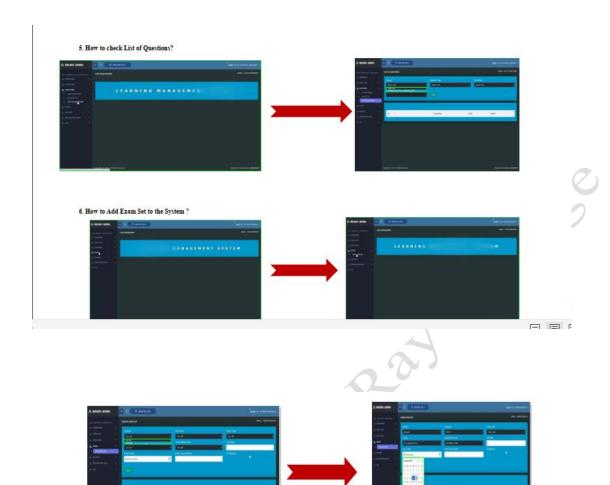




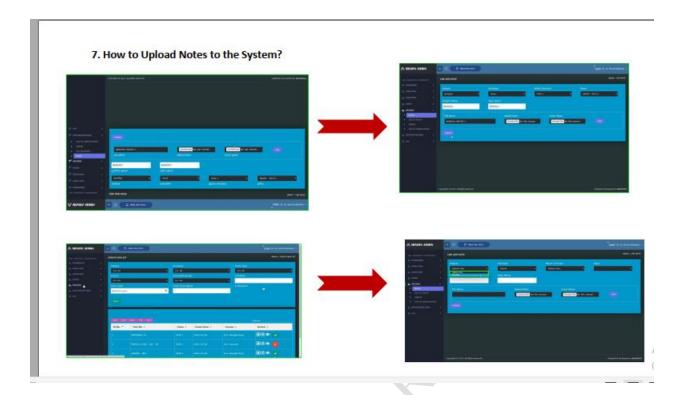




Rajyani muss



Rajyani musy



8. How to check Lists of Notes?



Rajyani musy

9. How to upload Videos to the system?





10. How to check List of Video Notes ?







11. How to Setup Descriptive Questions & Exam?

12. How to get Exam Report?

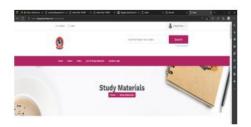
Rajyani musy





LMS STUDENT PART:





















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Exam Dashboard











Result screen in details







Rank/Position





Rajyani musy

Internship certificate



NETAJI SUBHASH CHANDRA BOSE CANCER RESEARCH INSTITUTE

(A Unit of Himsori Memorial Cancer Welfare Trust)
3081, Nayabad, Xolkata - 700 094, India
491 9874210007 9874210005
E-mail alors nori@gmail.com
nori projects@gmail.com
Web. arway nscri.in

This is to certify that Ms Ankita Das, M.Sc Microbiology, Vijaygarh Jyotish Ray College, has done a summer training on the topic "Antiproliferative effect of Withania somnifera leaf extract on ex vivo cultured primary breast tumors", in partial fulfilment of her M.Sc curriculum, under my supervision from 1.07.2019 to 31.08.2019. She has learnt techniques like primary tumor cell culture, immunohistochemistry, semiquantitative and quantitative RT-PCR during this time. I wish her all the best for future endeavours.

Littrika Rhallacherryw Dr Rittwika Bhattacharya

Scientist, Dept of Molecular Biology

Dr. Rittwika Bhattacharya Scientist Department of Molecular Biology

Rajyaeri musy

Phone: 2412-4082



VIJAYGARH JYOTISH RAY COLLEGE

(Affiliated to The University of Calcutia)
8/2, BEJOYGARH, JADAYPUR, KOLKATA - 700 032
ACCREDITED BY THE NAAC - B+ Grade.

Ref. No....

Date 22 1 2020

TO WHOM IT MAY CONCERN

This is to certify that Mr. Kashif Zohair Yusuf, a candidate of M.Sc. Microbiology of Vijaygarh Jyotish Ray College, Kolkata bearing Roll Number- 058/MCB/181029 and Registration Number- 115-1121-4791-15 has worked on the project titled "An Investigation for Antimicrobial bioactive compounds extracted from some common vegetables, fruits and spices" under my guidance and direction. The work was carried out during the period 26th June to 26th August, 2019, in the Department of Microbiology, Vijaygarh Jyotish Ray College, Kolkata.

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Dr. Prasenjit Das

Head of the Department of Microbiology

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आई, स्त्री एम् आर् — राष्ट्रीय कॉलरा और आंत्र रोग संस्थान ICMR - NATIONAL INSTITUTE OF CHOLERA AND ENTERIC DISEASES स्वास्थ्य अनुसंधान विधाण, स्वास्थ्य और परिवार कल्याण संपालय, भारत सरकार Department of Beath Research, Manality of Beath and Family Wellam, Gran of Ingla

CERTIFICATE

This is to certify that Miss Ayantika Santra (Reg. No.- 235-1221-0427-15, Roll no.-058/MCB/181025) studying M.Sc. in "Microbiology" at Vijaygarh Jyotish Ray College under "University of Calcutta", has satisfactorily completed her Project work on "Detection of Dengue Virus Serotypes in Recent Dengue Outbreak in Kolkata". She has worked at ICMR-National Institute of Cholera and Enteric Disease, Kolkata, West Bengal under my guidance from 15° June to 9° August, 2019.

She has satisfactorily completed her project work and found to be sincere. Any project similar to this should be granted as a sheer coincidence.

Date: 09. 08. 2019

Place Kolkata

Signature

Sthurchan

(Provash Chandra Sadhukhan) Scientist E

डाः प्रमात चन्द्र सायुक्षम (Dr. Provesh Chamire Sadhebhan (वेद्वानिक-ई /Scientist-E) आई.सी.एम.आर. राष्ट्रीय वर्षेत्रारा और और रोज जंस्थान (CMR-National Institute of Chalers and Enteric Diseases के 22 की कार्य में और असीय-१०१एम. बेलियामारा

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भारतीय रासायनिक जीवविज्ञान संस्थान INDIAN INSTITUTE OF CHEMICAL BIOLOGY

A Unit of Council of Scientific & Industrial Research An Autonomous Body, under Ministry of Science & Technology Government of India

4 राजा. एस. सी. मिक्कि रोड, यादवपुर, कोलकाता - 700 032 4 Raja S.C. Mullick Road. Jadavpur Kolkata - 700 032

Telegram LIVINGCELL Website www.iicb.res.in Phone 91-33-2473 3491/0492/3493/6793 Fax 91-33-2473 0284 / 5197

16 August 2019

To Whom It May Concern

This is to certify that Miss Satwika Das, a student of M.Sc. (Microbiology), Department of Microbiology. Vijaygarh Jyotish Ray College, Kolkata, India has completed her 'Summer Training Course' at my laboratory during 17 June 2019 to 14 August 2019 and a project entitled 'Verification of certain phenotypes of Vibrio cholerae Mon El Tor strains under hapR positive and negative backgrounds' has been successfully completed by her in this Department. During the training period she has learned some basic molecular biological techniques like preparation of bacterial genomic and plasmid DNAs, agarose gel electrophoresis, PCR assay, cloning of DNA fragments, transformation with plasmid DNA, propagation of transformants, restriction enzyme digestion of DNA and bacterial growth assays in different media.

I wish her success in future career.

Dr. Rupak K. Bhadra Chief Scientist & Immunology Division rupakbhadra@iicb.res.in

Infectious Diseases & Immunology Division E-mail: <u>rupakbhadra@iicb.res.in</u> Tel. 2499-5762

Dr. Rupak K. Bhadra
Phil. FAASE, FASET
Chief Scientist
Infectious Diseases & Immunology Dis.
CBR-indian Immitsis of Chamical Budget

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Phone: 033-2412-4082

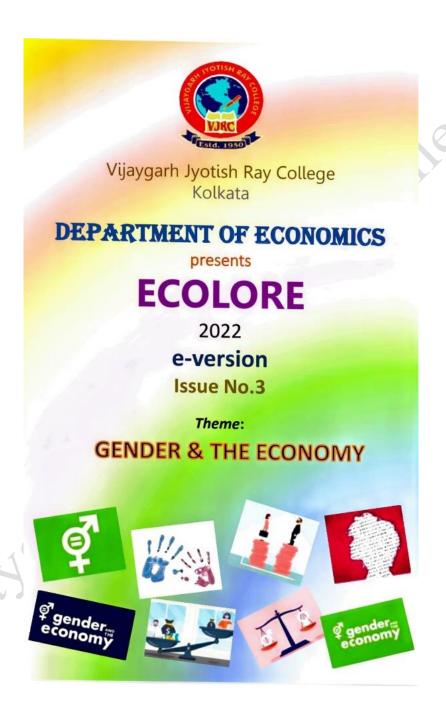
VIJAYGARH JYOTISH RAY COLLEGE

(Affiliated to The University of Calcutta) 8/2, BEJOYGARH, JADAVPUR, KOLKATA-700 032

PARTICIPATIVE LEARNING

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E-magazine "Ecolore 2022" was published by Department of Economics



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Department of English, VJRC has published a Wall Magazine "Dialogic" on 29.12.2021 (4th Issue)



Dept. of Botany of VJRC has published a Departmental Magazine on 24th December 2021.



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Using Slide

Systematics and taxonomy





Systematic Botany and Taxonomy

INTRODUCTION undergone only the processes of collection and drying. Natural substances: 1- Plant origin: leaves, flowers, seeds and barks. Or vegetable saps, extracts and secretions. 2- Animal origin: whole animals, glands or organs, extracts and

Medicinal Plants and Ethnobotany

Nitrogenous bases



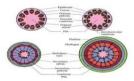
- Purine and Pyrimidine are the two basic building blocks of nitrogenous bases
 Common pyrimidine derivatives are uracil, thymine and cytosine
- · Common purine bases are adenine and
- Uracil are found in RNA molecules only
- Thymine are found in DNA only
- Cytosine, adenine and guanine are found both in DNA and RNA

Biochemistry

SECONDARY GROWTH

Normal Secondary Growth

- Fundamental parts of plant body are produced from apical meristem
 Further growth achieved in the distant regions is called as secondary growth in thickness
 Secondary growth in dicotyledonous stem is basically of two types
- Normally secondary growth in dicot stem is achieved by vascular cambium, also known as <u>fascicular cambium</u>, as their vascular bundle is conjoint and collateral
- Gradually cambium is extended in the interfascicular region from parenchyma and medullary rays and forms a complete cambial ring
- This cambial ring forms a continuous cylinder of secondary vascular tissue, phloem on the outer side and xylem on the inner side of the cylinder

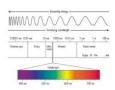


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Anatomy

Photosynthesis

- Photosynthesis is the process by which light from the sun is converted into the energy necessary for the vital functions of living things
- Light is unique in having both particulate and wave properties
- Wave is characterised by wavelengths (λ) and frequencies (v)
- Light is also a particle called photon and each photon contains an amount of energy called a quantum (pl. quanta)
- Sunlight is like a rain of photons of different frequencies



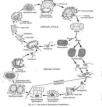
Plant Physiology

Life History of some Fungi

•Synchitrium:

Family-Synchitriaceae; Order-Chytridiales; Class-Chytridi

- Represented by around 200 species all of the world and about 80 species in India
- Occurs as a parasite on members of solanaceae, cucurbitaceae, lamiaceae e
- 3. S. endobioticum is a well known species
- Vegetative thallus is unicellular and hold
- 5. Cell wall possess chitin
 6. Reproduces both by several and assertable



Fungi and Plant Pathology

Ultrastructure of Cell

- Cyanophyta and prochlorophyte, these two divisions contain prokaryotic algae which are now usually called bacteria in view of their cell structure being very similar to eubacteria. Thus Cyanophyta are called cyanobacteria and prochlorophyte are termed prochlorobacteria.
- The phylum Cyanophyta (blue-green algae) differs from other algae in having a procaryotic cell organization i.e. it lacks organized double membraned nuclei, chromatophores and mitochondria and possesses characteristic photosynthetic pigments including biliproteins and myxoxanthophyll in addition to chlorophyll-a and β carotene.

Algae

(1). Ephemeral Xerop

(1). Ephemeral Xerophytes: - Short lived xerophytes

 ${\bf Examples:}\ Tribulus\ terrestris,\ Trianthema\ monogyna,\ Carthamus\ oxyacantha$

Ephe

Tribulus terrestris



Trianthema Sps.



Carthamus Sp

Anatomical Adaptation

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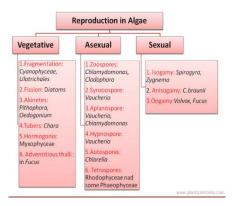
ECOLOGICAL SUCCESSION

- Communities tend to change with time until a stable system is formed.
- The replacement of one community by another until a stable stage is reached is called **ecological succession**.
- A series of changes in a community in which new populations of organisms gradually replace existing ones.

Ecological Succession

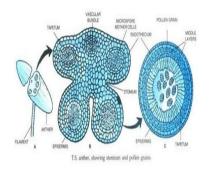


Natural Resource

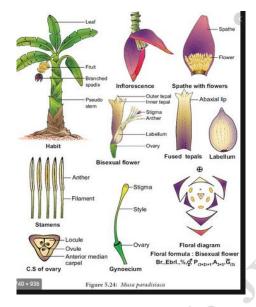


ALGAE

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Palynology



Musaceae : Distinctive features

Common characteristics	Exceptions		
Vegetative characteristics			
Plant. Large perennial herbs with rhizomatous stems.	Tree - Ravenala madagascariensis.		
Leaves. Simple, large, glabrous, lanceolate or oblong, entire with thick and prominent midrib, and stiff sheathing leaf bases. The sheathing leaf bases arranged spirally and form the pseudostem or false-stem.			
Reproductive characteristics			
Inflorescence. Mixed spadix (Individual flowers are arranged cymosely and is subtended by large spathe. The cymose inflorescences are arranged racemosely and finally they are covered by spathe), which develops singly and terminally from the rhizome and emerges at the top of the false stem.			
Flower. Zygomorphic, usually bisexual, epigynous, commonly large and showy.			
Perianth. Tepals 6 (3+3), petaloid or differentiated into calyx and corolla, united or free.			
Androecium. Stamens 6, of which the posterior 1 is rudimentary (staminode) or wanting, filaments free and filiform, anthers linear, 2-celled and introrse.	6 stamens are fertile – Ravenala. 6 fertile but posterior one is smalle than others – Ensete.		
Gynoecium. Carpels 3, syncarpous; ovary inferior, 3-celled with numerous anatropous ovules in each cell on axile placentation; style filiform and stigma 3-lobed.			
Fruits. Berry.	Capsule – Ravenala.		
Seeds. Numerous, with thick and hard testa containing mealy endosperm and straight embryo.			

Taxonomy: Monocot Family

Fossil Gymnosperm

Ginger (আদা) Zingiber officinale Rosc. (n = 11) Family: Zingiberaceae Dried and branched rhizomes South-East Asia: used by the Chinese India is the primary producer, consumer and exporter of ginger in the world Karnataka, Assam, Arunachal Pradesh, West Bengal, Sikkim and Madhya · Two popular varieties: Cochin ginger and Calicut ginger

Inter-specific hybridization:

- Ex. Nerica, an upland rice for Africa
- Oryza sativa (Asian upland rice):

 - non-shattering ,resistant to lodging,high yield potential
- · Oryza glaberrima (African rice):
- drought tolerant,disease resistant,
- Weed suppressing
- Nerica rice combines the best of both species.

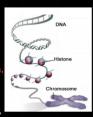




Economic Botany

Vijaygarh Jyotish Ray College Kolkata-700 032

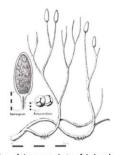
- > The arrangement and presence of many genes on a single chromosome provides a change in genetic information not only through change in chromosome number but also by a change in chromosome structure.
- The change in chromosome is due to alteration in genetic material through loss, gain or rearrangement of a particular segment. Such changes are called cl
- The modification brings about chromosomal mutations.
- Chromosomal mutations are very rare in nature but can be created artificially by 'X' rays, atomic radiation and chemicals,
- The structural changes in chromosomes are due to breaks in chromosome, or in its cell division subunit, i.e., chromatid.



Genetics

Rhynia major (now Aglaophyton major)

- The other species of Rhynia (Rhynia major) has been transferred to a new genus, Aglaophyton major by D.S. Edwards, 1986.
- He demonstrated that it was not a true vascular plant and its conducting element was structurally different from trachieds and was more like the water-conducting system (hydroids) of moss sporophytes.
- A. major is reconstructed as a plant approximately 10 cm
- It consisted of a system of naked, stomatiferous, more or less cylindrical, prostrate axes that were loosely lying on substrate surface and functioned as rhizomes.
- It had aerial erect dichotomous axes, some of which were terminated by ellipsoidal sporangia filled with thick walled isospores.

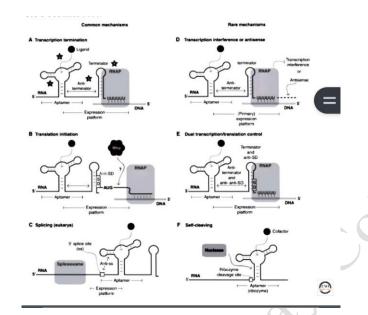


1133 Reconstruction of the sporophyte of Aglaophyton, illustrating bifurcating axes with terminal sporangia, and rhizoids

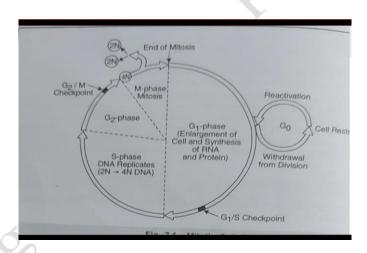
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Vijaygarh Jyotish Ray College Kolkata-700 032

Pteridophyte



Genetics



Cell biology

Natural Selection

- In any population of organisms there is natural variation.
- Some of these variations will allow the organisms possessing them to survive and reproduce better than those without these particular traits.



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Editing



Editing useing ICT by Student

Activate Windows



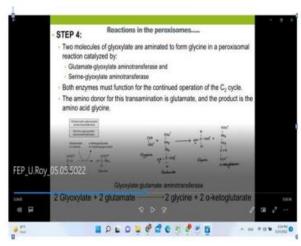
Editing useing ICT by Student

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Faculty Exchange Programme

A)Faculty Exchange Programme was organized between VJRC and New Alipore College (under MOU) on 05.05.22.





Phosphorylation

It is also called exercyne Q, or Q

It is a lipid-soluble betracquinene with a long isoprined side chain.

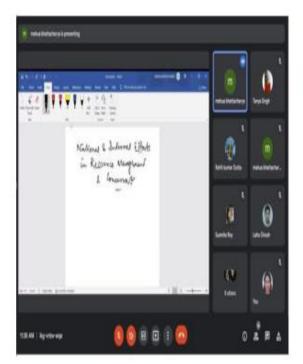
Ubiquinene can accept

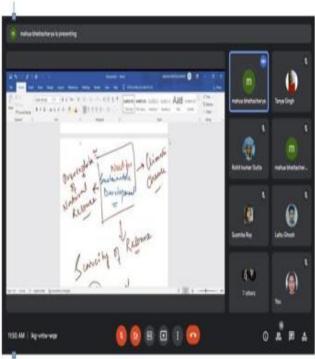
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Faculty Exchange Program was organized between VJRC and New Alipore College (Dept. of Botany) under MOU on 06.01.22





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Student Outreach Programme

Outreach Programme between Bhaba Atomic Research Centre(BARC), Mumbai and VJRC was organized by Department of Physics, Chemistry and Mathematics on 27.04.2022



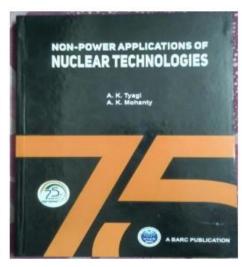










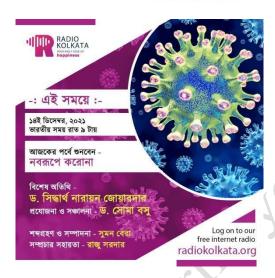


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Radio kolkata: Flyers of Programmes

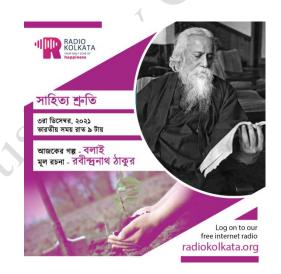


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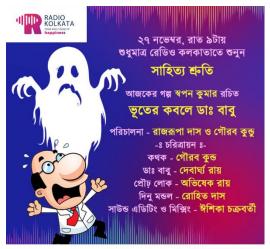
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Class Test and Internal Examination Notice

NOTICE

Departmental Class Test

Dept. of Botany

6th Semester (General)

Vijavgarh Jvotish Rav College

All the Students of Botany General, 6th Semester (BOTG)_2021 are informed that a class test will be taken through Google Form on Scheduled Botany Class on 28.07.2021 (Wednesday). The topics were discussed by Nanda Khan. The link for the examination will be shared on your Google Class room in the said time and the form will be active for 30 min. No student will be allowed to give the exam after the time schedule.

Urmi Ray

Date: 22.07.2021

Head of the Department of Botany Vijaygarh Jyotish Ray College

6/70 3

5th Semester Hons.

All the Students of Economics Honours, 5th Semester, 2020 are informed that a class test will be taken on Scheduled Class on 29th September, 2020 on Comparative Development Economics. The chapter is already discussed in your last class with Dr. Palashpriya Halder. The question paper will be sent through official WhatsApp Group, and also in Google Classroom. Send the scanned copy through e-mail ID: palashpriyavjrcaac@gmail.com.

Date: 24th September, 2020

Head, Dept. of Economics

Notice

Department of Mathematics Vijaygarh Jyotish Ray College

A class test will be held for 1st SEM Mathematics General on Algebra on 12th November, 2021. An assignment will be posted in google classroom on the above mention date and you have to submit the answer scripts within 13th November, 2021 in Google Classroom. No late submission will be entertained.

> Sispernali Sharina 8/11/2021

HOD of Dept. of Mathematics Vijaygarh Jyotish Ray College

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Notice

Department of Mathematics

Vijaygarh Jyotish Ray College

A class test will be held for 1st SEM Mathematics General on Algebra on 12th November, 2021. An assignment will be posted in google classroom on the above mention date and you have to submit the answer scripts within 13th November, 2021 in Google Classroom. No late submission will be entertained.

Sasaruali Sharua 8/11/2021

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HOD of Dept. of Mathematics Vijaygarh Jyotish Ray College

VIJAYGARH JYOTISH RAY COLLEGE DEPARTMENT OF BENGALI

INTERNAL EXAM-2021(ULLY) NOTICE বাংলা বিভাগের ফিপ্রেম চতুর্ব ও ফট চেন্দেন্টারের শিক্ষবীলের উদ্দেশ্য কানালো যাছে যে নিম্নলিখিত সূচী অনুযায়ী তেমালের অভাগরীৰ মূলায়ণ অনুষ্ঠিত হবে৷ পরীক্ষামীরা নির্দিষ্ট সময়ে গু সুচী অনুযায়ী আনলাইন

SEMESTER	DATE	DAY	PAPER	MODE	REMARKS
2 nd Bengli(Hons)	06/07/2021	Tuesday	CC-3 & CC-4	Google Form	Each Paper 36 Minutes
2 nd Bengali(GE)	07/07/2021	Wednesday	GE-1	Google Form	30 Minutes
4th Bengali(Hons)	06/07/2021	Tuesday	CC-8 &CC-9	Google Form E	Each Paper 30 Minutes
4 th Bengali(Hons)	07/07/2021	Wednesday	CC-10 & SEC-B	Google Form E	Each Paper 30 Minutes
4th Bengali(GE)	08/07/2021	Thursday	GE-4	Google	30 Minutes
6th Bengali(Hons)	25/07/2021	Sunday	CC-13 & CC-14	Google Form	Each Paper 30 Minutes
6 th sem Bengali(Hons)	26/07/221	Monday	DSE-A-2 & DSE-B-2	Google Form	Each Paper 30 Minutes
4th Bengali(GEN)	24/07/2021	Saturday	LCC-1	Google	30 Minutes
6 ^{TR} Bengali(Gen)	24/07/2021	Saturday	LCC-2	Google	30 Minutes

পরীক্ষার নিয়মাবলীঃ

১)পরীক্ষা শুরু হওয়ার ১০ মিনিট আগে লিম্ন দিয়ে দেওয়া হবে নখিভূক্ত মেইল আইডি তে ও

২)পরীক্ষা শেষ হয়ে যাওয়ার পর লিম্ন তুলে নেওয়া হবে ৩)প্রশ্লের সাথে যা জানতে চাওয়া হবে তা সঠিক ভাবে দেবে।

৪)প্রস্লের ধরন বিকলপথমী ১ নম্বরের ১০টি প্রশ্ন থাকবে

स्रवाल वीववरण्यी বিভাগীয় প্রধান

তারিক 01/07/2021 প্রতিলিপি: ১৷মাননীয়া অধাক্ষা

হামান্ত্রণা অব্যক্ষা ২।সমস্ত বিভাগীর প্রধান ত।পরীক্ষাসমূহর আহ্বারক ৪। কলেজ নেটিস বোর্ড ৫।বিভাগীর অধ্যাপক- অধ্যাপিকাবৃদ্দ

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An Intra-College Debate Competition was organized by Dept. of Education, VJRC on the topic: "New Education Policy 2020 - A Vision to the Next Generation" on 21.12.2021



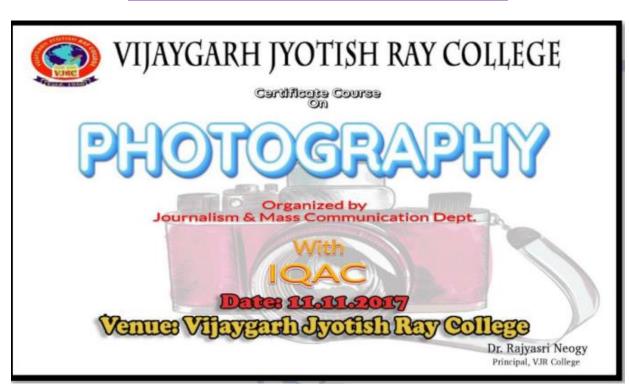
Quiz competition was held on the celebration of the World Environment Dayon 6th June 2021 by Dept. of Environmental Science, Dept. of Botany, Dept. of Microbiology, Research & Guidance Cell & IQAC in collaboration with Science Association of Bengal

STUDENT QUIZ COMPETITION World Environment Day 2021 6th June 2021



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Various Add-on Course





Web Journalism & Designing

Organized by Journalism & Mass Communication Dept.



Date: 15.12.2017

Venue: Villaygach Jyotish Ray College

Dr. Rajyasri Neogy Principal, VJR College

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😭 VIJAYGARH JYOTISH RAY COLLEGE

in collaboration with

SUCCESS SCHOLAR

Communicative English & soft skill

Value Added Course

Organized by

Date: 07.05.2003

enne: Vijaygarh Jyotish Ray College

Dr. Rajyasri Neogy Principal, VJR College



VIJAYGARH JYOTISH RAY COLLEGE

Cerúlificade Course On

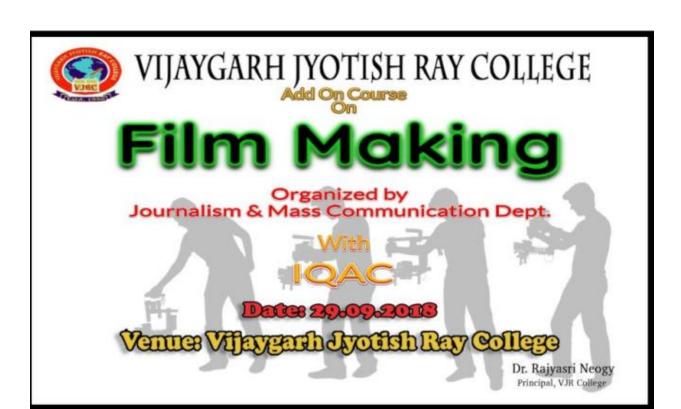
Photography & Videography

Organized by Journalism & Mass Communication Dept.

Venues Viffavgash Jyotish Ray College

Dr. Rajyasri Neogy Principal, VJR College

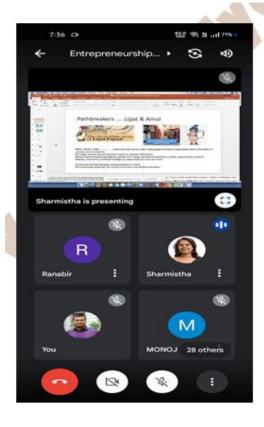
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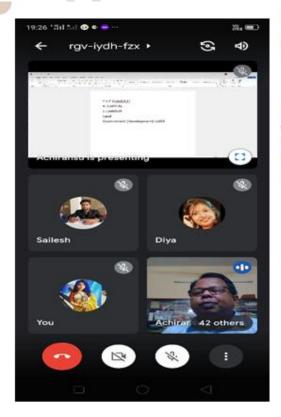




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Classes on Film Making



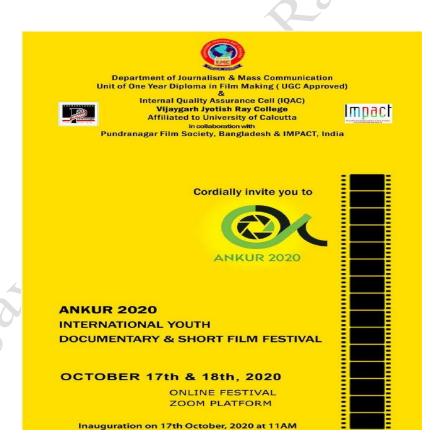
Classes of Communication Skill and Personality Development



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Ankur Film Festival



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Screening Session - I 17th October, 2020 at 1.30pm — 4.30pm Foreign Short Films



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- The Frame Directed by Ekrem Özgenç, Lale Gurbanova (Turkey)
- La Der Des Der Directed by Patrice Guillain (France)
- Run away Directed by Ishtiyak ahmad zihad (Bangladesh)
- Unaware Directed by Tarcisio Coelho Borges (Brazil)
- Outside the line Directed by Ekrem Özgenç, Lale Gurbanova (Turkey)











Screening Session - I

17th October, 2020 at 1.30pm – 4.30pm Foreign & Indian Documentary Films



- Piraña Directed by Nainisha Dedhia (India)
- The Typewriter Directed by Hindole H-Shihan (India)
- DIALOG Directed by SOUVIK CHAKRABORTY (India)
- FRIENDLY INVADER Directed by 2nd Year, BFA in Digital Filmmaking & VFX,
 Techno India University (India)
- Big Durian Big Apple Directed by Azalia Muchransyah (Indonesia)











Rajyani news



Phone: 033-2412-4082

VIJAYGARH JYOTISH RAY COLLEGE

(Affiliated to The University of Calcutta) 8/2, BEJOYGARH, JADAVPUR, KOLKATA-700 032

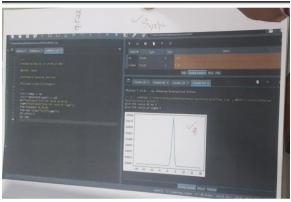
Problem Solving

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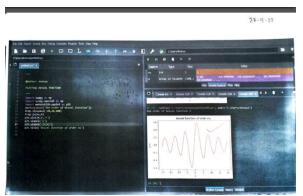
Tutorial project

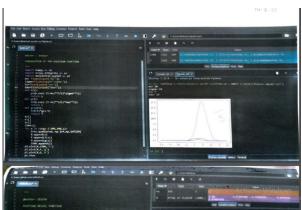


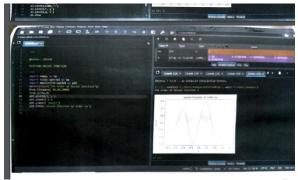


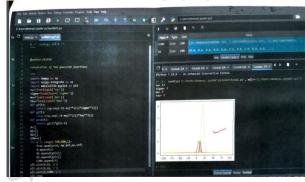


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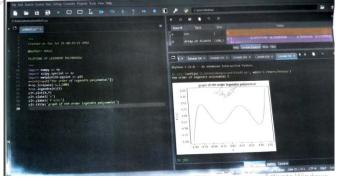


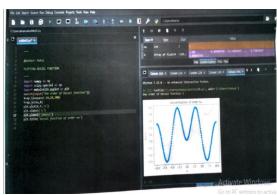




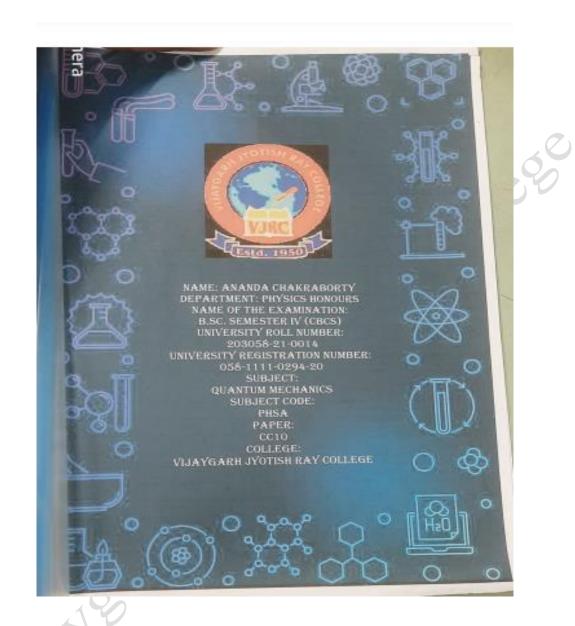


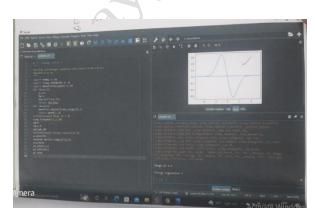


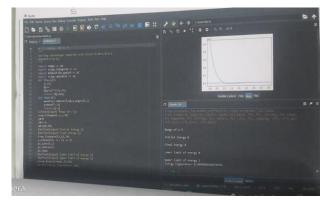




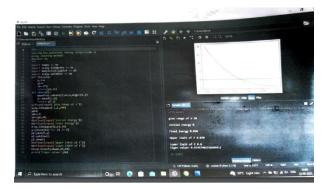
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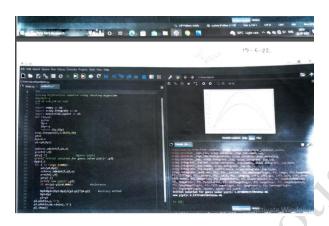


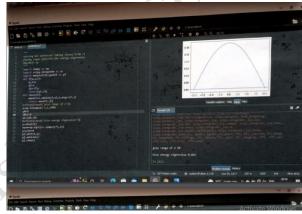


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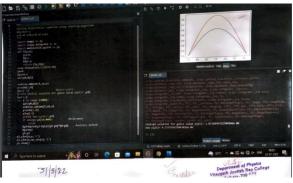




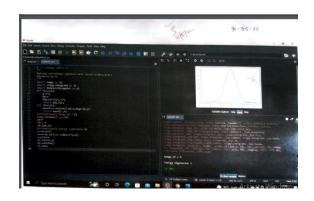


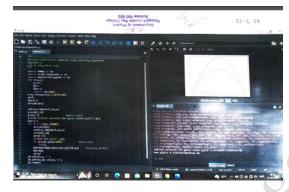






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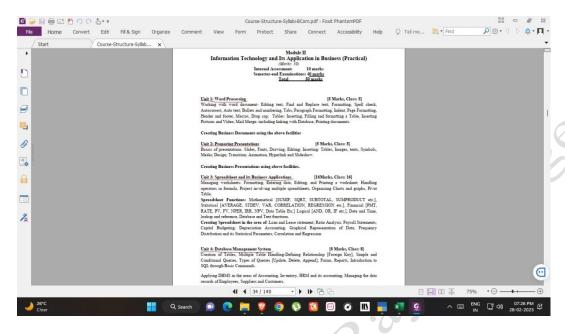


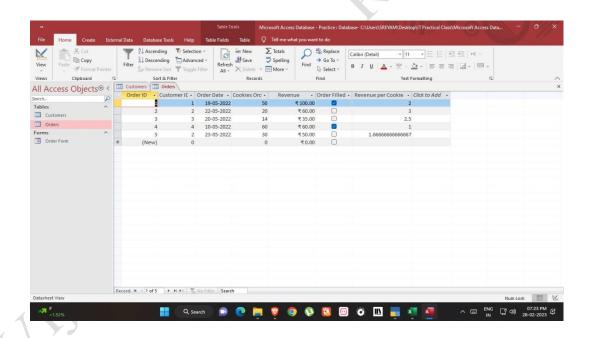


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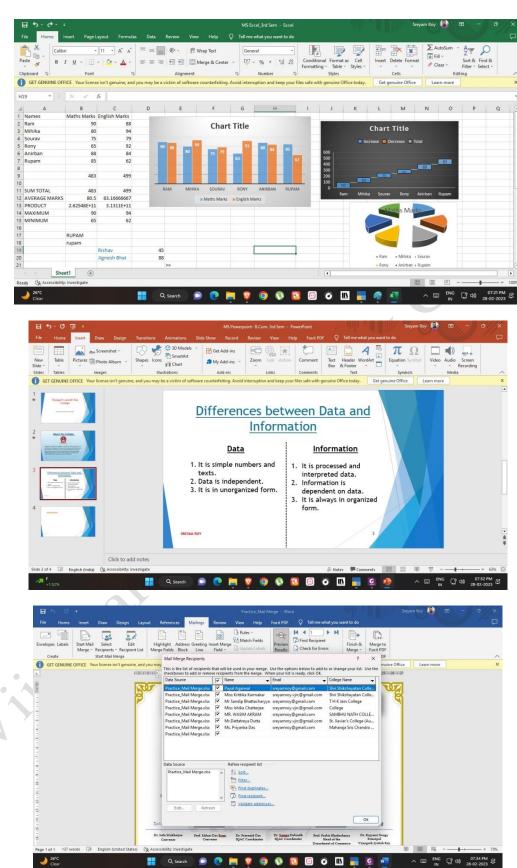
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Department of commerce using ICT

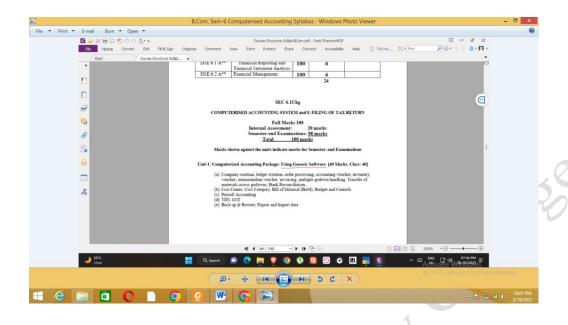


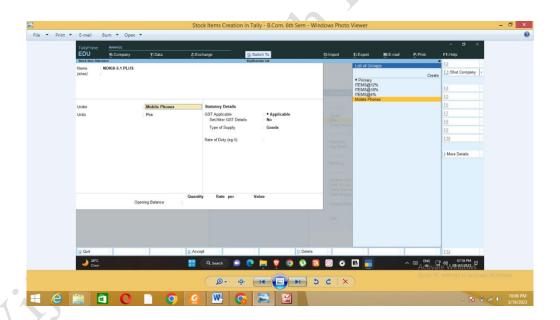


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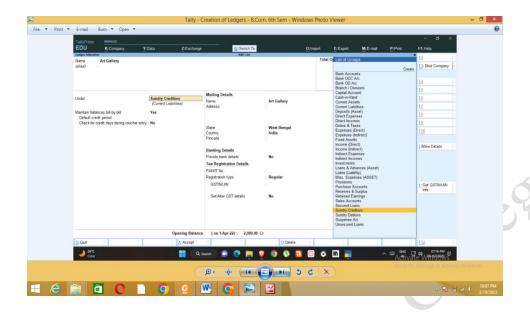


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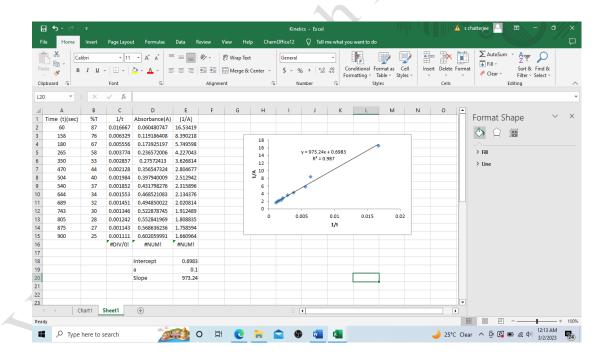




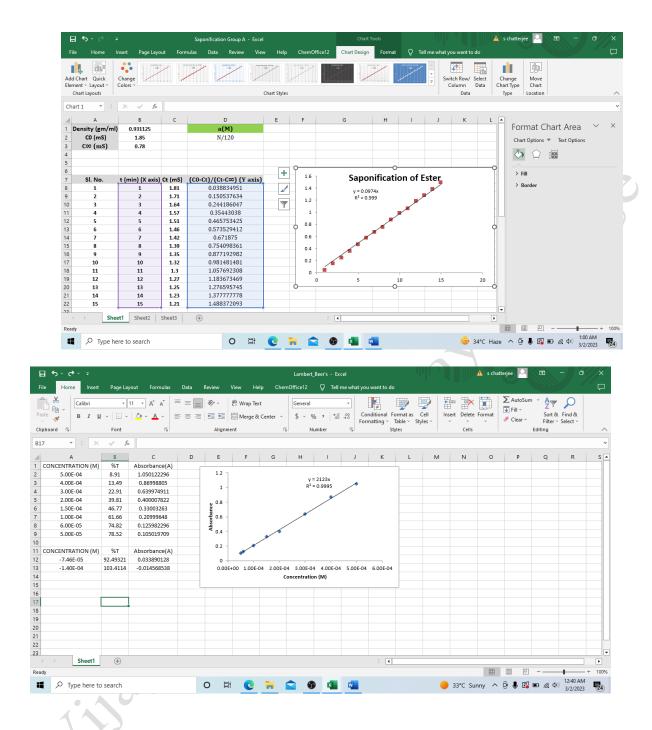
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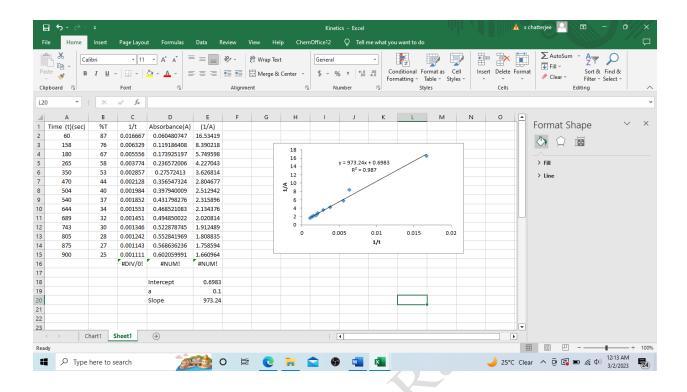
Practical Curriculum in CC 14 Physical Chemistry



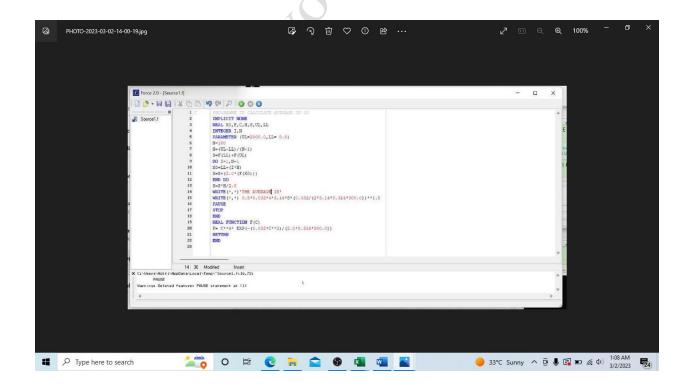
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Practical Curriculam in CC 11 and DSE A2 Physical Chemistry

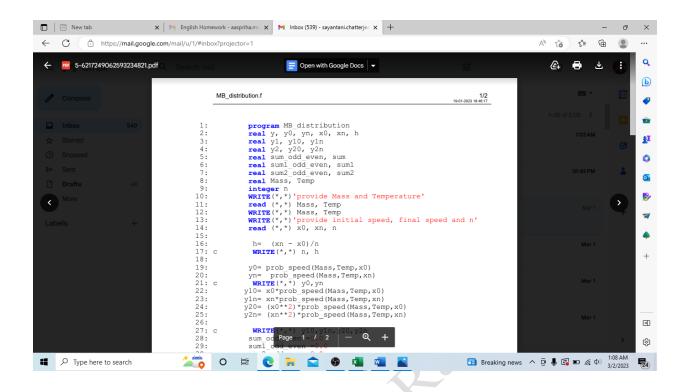


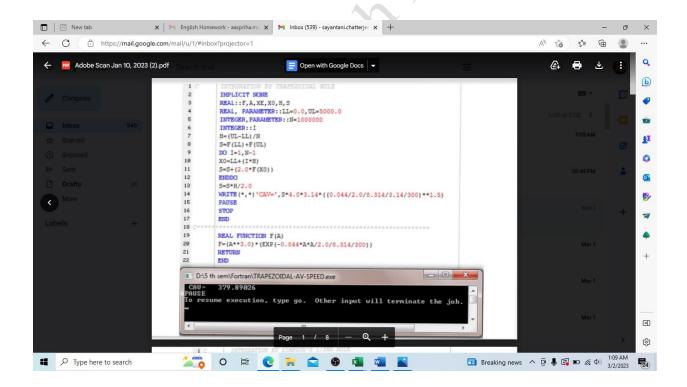
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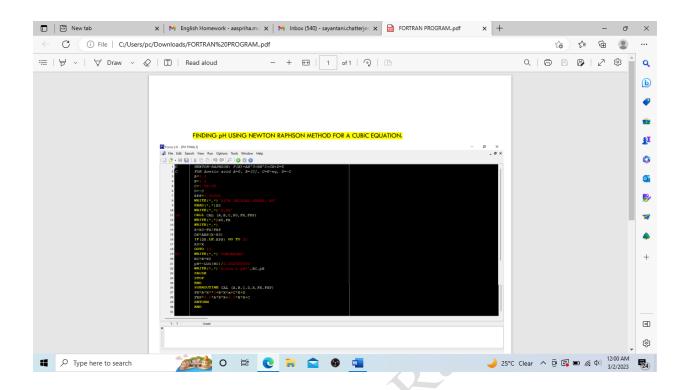
Vijaygath Jyotish Ray College

Kolkata-700 032

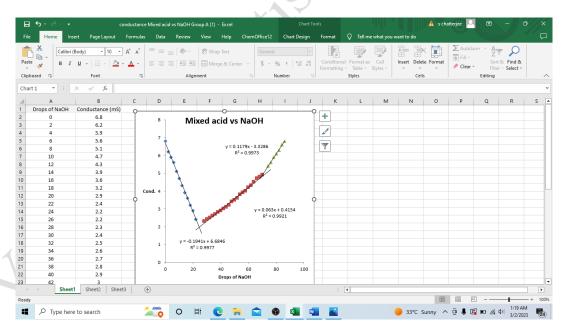


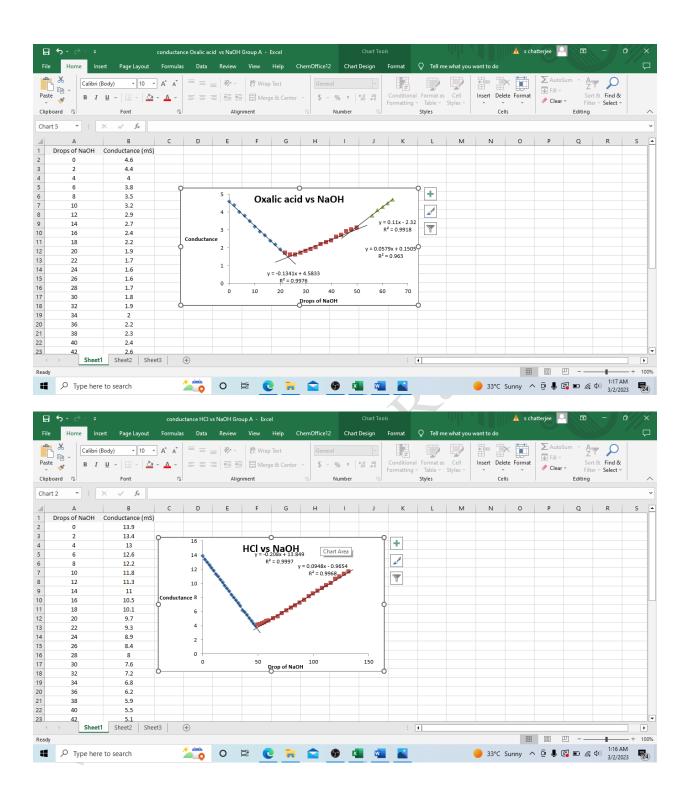


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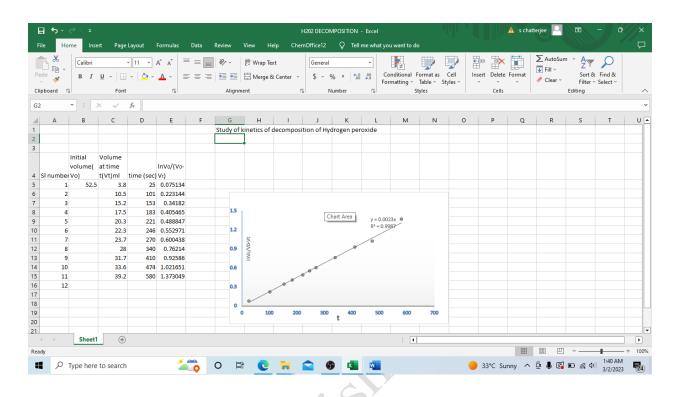
Practical Curriculam CC 9 in Physical Chemistry

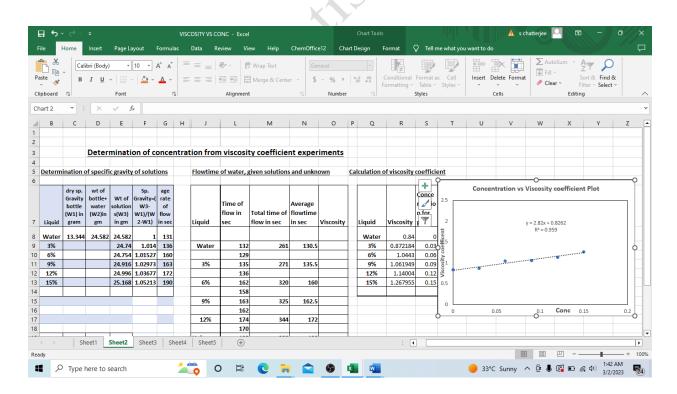




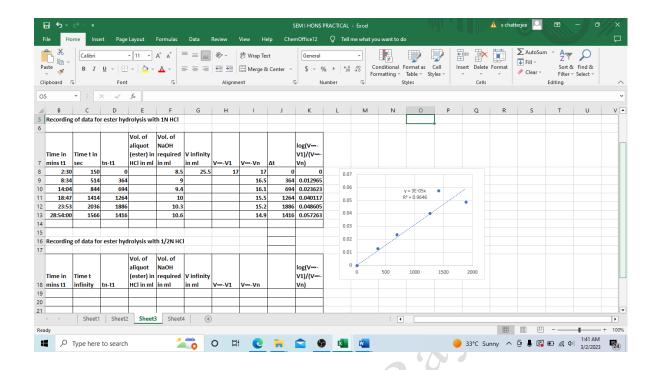
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Practical Curriculam in CC 2 in Physical Chemistry





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DEPARTMENT OF JOURNALISM



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Practical Class Useing ICT

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1st Semester(H)

JORA-CC-1-1-P: Introduction to Journalism-Practical

Total Classes: PR: 4hrs. Per Week

Basic knowledge of Computer for print journalism; Handling Page Making Software and Photo Editing Software; Writing a News Report from given points; Writing Headlines from News Stories; Writing Intro; language of news.

Unit-4 (Practical)

Rewriting and Summarizing a given piece of news with headlines and suitable intro; Creating a sample page on computer with hard and soft news; Writing Anchor Story; Writing article; Assignment: Preparing a presentation on types and categories of News.

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JORA-CC-3-7-P: Introduction to Radio

Marks=30 (2credits)

Total Classes: 4hrs. Per Week

Unit-4 (Practical)

Radio Personnel; Radio Script: Pre-Production, Production skills; Copywriting; Field recordingskills, livestudio broadcast with multiple sources, Cuesheet and recording, news production; Editing, Creative use of Sound Editing (Computer based), special sound effects, Phone-in programme.

3rd Semester(G)

JORG-CC/GE-3-3-P: Journalism

Marks=30 (2 Credits)

Total Classes: 4hrs Per Week

Unit-4

Basic knowledge of Computer for print journalism; Writing a News Report in about 150 words from given points; Writing Headlines from News Stories; Writing Headline, Intro; Writing Anchor Story; Writing article; Creating a display advertisement on Photo Editing Software.

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JORA-CC-4-8-P: Introduction to Television

Marks=30 (2 Credits)

Total Classes: 4hrs. Per Week

Unit-4 (Practical)

Editing: Introduction to Video Editing, Camera and Shooting techniques, Editing Techniques, TV Script Writing.

Practical Exercise:

- (a) Producing a Documentary Film (Duration: 8-15 Minutes) with Viva-Voce; OR
- (b) Producing a Feature Film (Duration: 5 Minutes) with Viva-Voce;
 - · Three candidates will make a Team for each Documentary Production;
 - Candidates failing to appear in the examination or non-exhibition of video (duly signed by the college authority) on the day of examination will be treated absent.
 - · Three candidates will make a Team for each Documentary Production;
 - Candidates failing to appear in the examination or non-exhibition of video (duly signed by the college authority) on the day of examination will be treated absent.

5th Semester(H)

JORA-CC-5-11-P: Introduction to New Media Marks: 30 (2 Credits)

Total Classes: 4hrs. Per Week

Unit-3 (Practical)

Tools of Online Journalism: Multimedia, Interactivity, Hyperlinks, Weblogs and Content Management Systems (CMS); New Media and Social Networks: New Media, Social Networking and media activities; websites;

Unit-4 (Practical)

Linear and Non-linear writing, Contextualized Journalism, Writing Techniques, Linking, Multimedia, Storytelling structures, Visual and Content Design, Website planning and visual design, Content strategy and Audience Analysis, Brief history of Blogging, Creating and Promoting a Blog.

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6th Semester(H)

JORA-CC-6-13-P: Advertising

Marks=30 (2 Credits)

Total Classes: 4hrs. Per Week

Unit-4 (Practical)

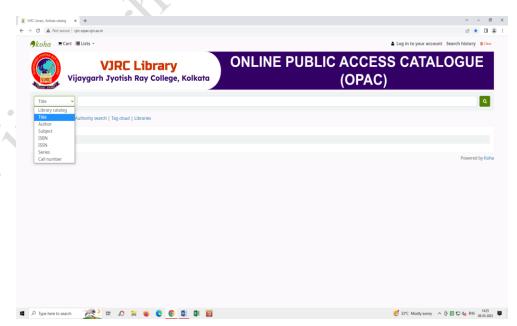
Types of advertisement: Classified-display, Local-regional-national-international Ad, consumercorporate ad, industrial-trade-retail Ad, government-private, outdoor, surrogate, radio-TVinternet-mobile; Advertisement copy and lay-out: Headline, Illustration, Subhead-Text, Slogan, Logo, Storyboard making; Thumbnail-Rough-Final lay-out, Television Commercials.

CENTRAL LIBRARY of COLLEGE

Our library is partially automated

Using Library Management Software: Koha 22.11.02.000 Web OPAC link: http://vjrc-opac.vjrc.ac.in/

OPAC search:



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Fig. 1.1. OPAC homepage

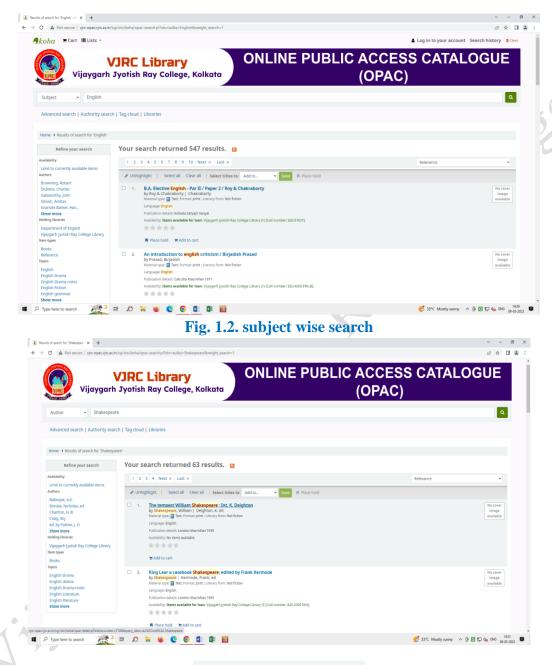


Fig. 1.3. Author wise search

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N-list database:

https://nlistidp.inflibnet.ac.in/idp/profile/SAML2/Redirect/SSO?execution=e1s1

We had institutional membership of N-list,

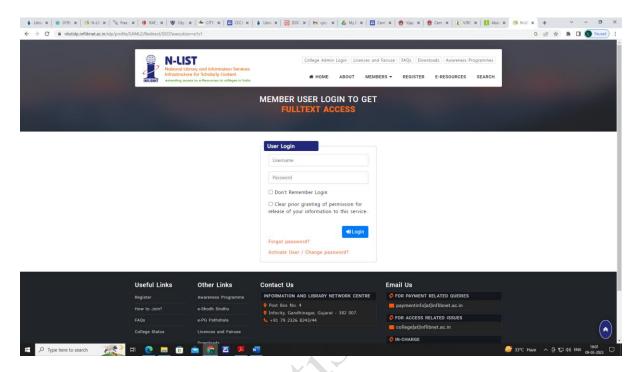


Fig. 1. N-list homepage for members login

NDLI (National Digital Library of India): https://club.ndl.iitkgp.ac.in/sign-in

We had institutional membership of N-list,

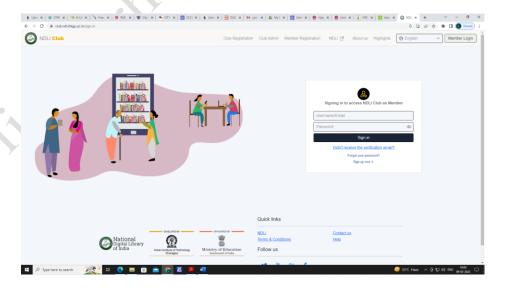
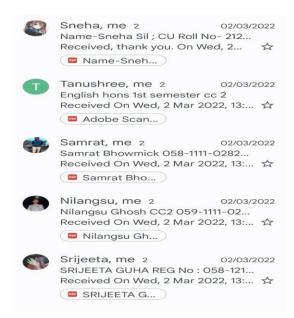


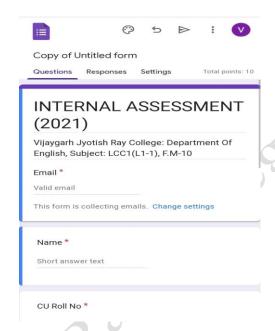
Fig..1. NDLI homepage for member's login

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Submission of University exam scripts via mail

Internal assessment with Google form





C-Programme Language & Phyton



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Classes on

Python

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