

Ramakrishna Mission Vivekananda Centenary College

(Autonomous)

Rahara, North 24 Parganas, West Bengal : 700118



Affiliated to West Bengal University

College with Potential for Excellence

RUSA-funded Institution

DST-FIST Awarded College

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Email : rkmvcccollege@rkmvccrahara.org

**Report on workshops/seminars conducted on Research
Methodology, Intellectual Property Rights (IPR), Entrepreneurship
and Skill Development during the year 2020-2021**

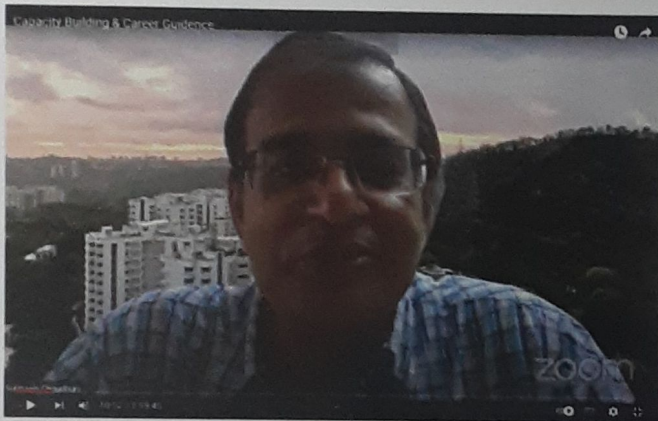


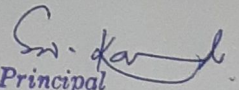
S. K. Karmakar

Principal

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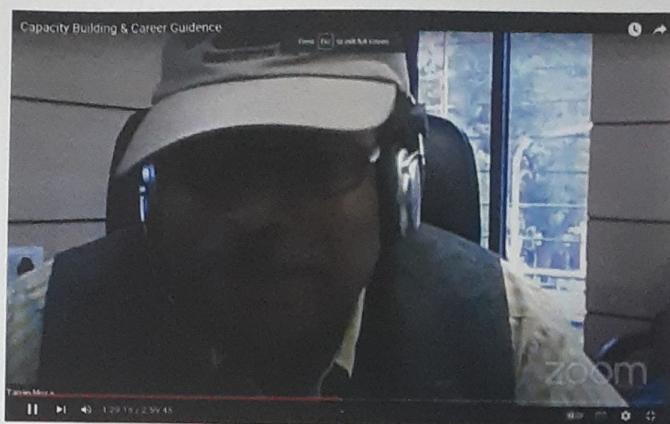
The following is the Report on workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year 2020-2021:

Date	Title of the Seminar / Workshop	Speaker Details
1 st July, 2020	Webinar on STEM Education and Then What? organised by Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara	Prof. Subhasish Choudhry , Director; IIT Bombay
<p>Participants students, teachers and scholars: 67 He discussed facts and a method of thinking which can be applied by students to solve real world problems.</p> 		
1 st July, 2020	Webinar on Yantra, Tantra, Mantra , organised by Department of Physics, Ramakrishna Mission Vivekananda Centenary College, Rahara	Sri Tapan Misra , Former director, Space Application centre, Department of Space, ISRO


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Participants students, teachers and scholars: 45

He discussed the significance of ritual and meditation to purify and energize our being thus bringing a deeper awareness of our spiritual existence.



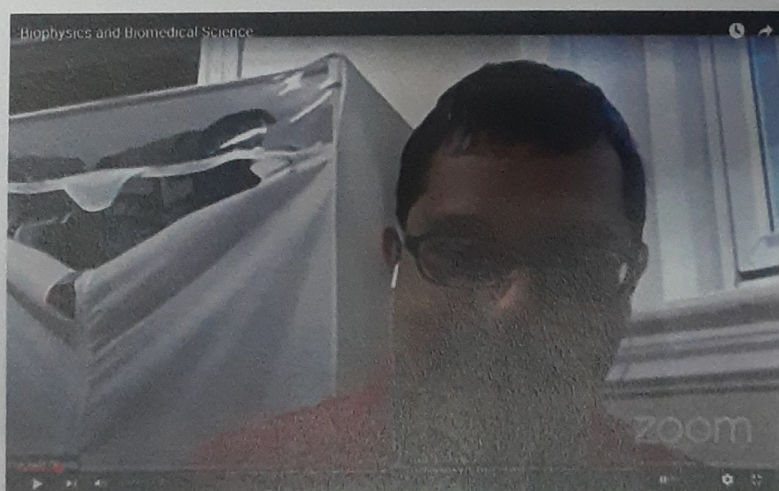
3rd July, 2020

Webinar on "**Molecular Detection of Diabetes Mellitus from Exhaled Breath Analysis**" organised by Department of Zoology, Ramakrishna Mission Vivekananda Centenary College, Rahara

Dr. Chiranjit Ghosh, Post-doctorate Research Fellow, Division of Infectious Disease, Harvard Medical School/BWH, Harvard University

Participants students, teachers and scholars: 57

He discussed the relevance of exhaled breath analysis through critical assessment of current technologies and recent advancements in sensing methods to address the shortcomings associated with blood glucose monitoring.



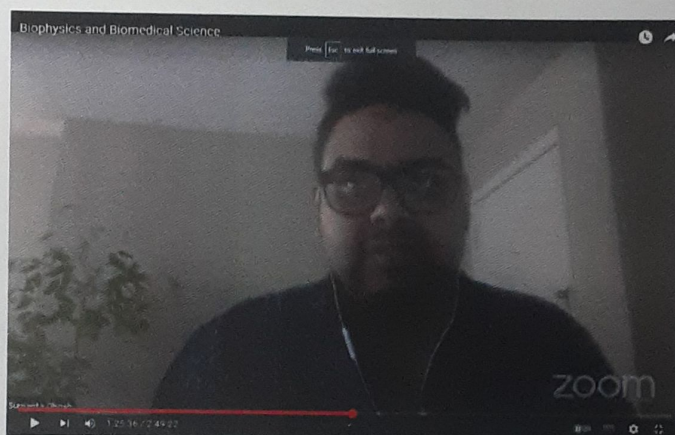
Sri. Karan L.
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3 rd July, 2020	Webinar on "Biophysics of protein folding aggregation in Neurodegenerative diseases" organised by Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Sumanta Ghosh , Postdoctoral Research Fellow, University of Texas, USA
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Participants students, teachers and scholars: 45

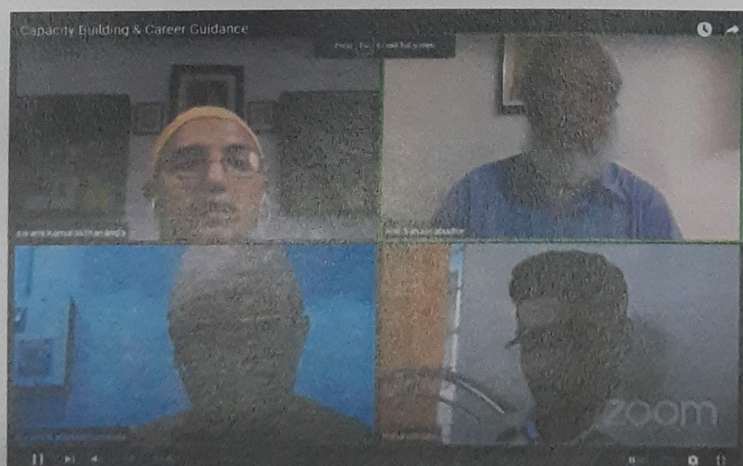
He discussed the biophysical approaches that explain the formation of aberrant conformational states of proteins whose neurotoxic effects underlie neurodegenerative disorders.



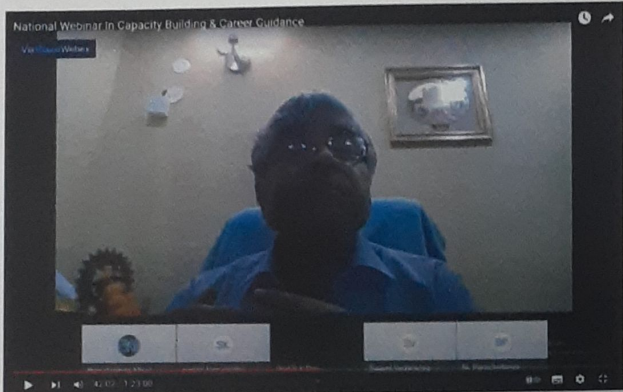
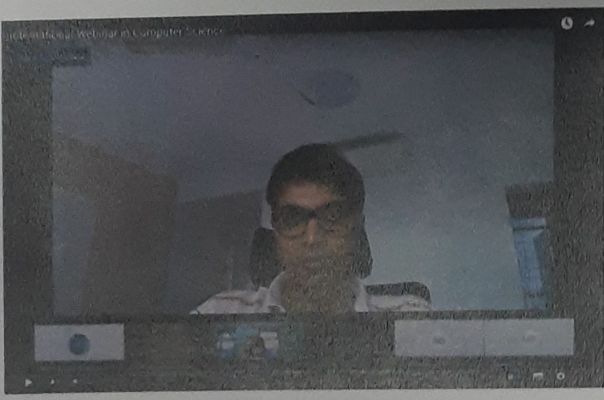
18 th July, 2020	Webinar on Capacity Building & Career Guidance organised by Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara	Prof. Anil Sahasrabudhe , Chairman, All India Council for Technical Education, New Delhi
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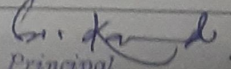
Participants students, teachers and scholars: 142

He discussed the development of competencies and skills that can make students more efficient and sustainable, thus increasing the potential for charitable non-profits to enrich lives and solve society's most interactive problems.



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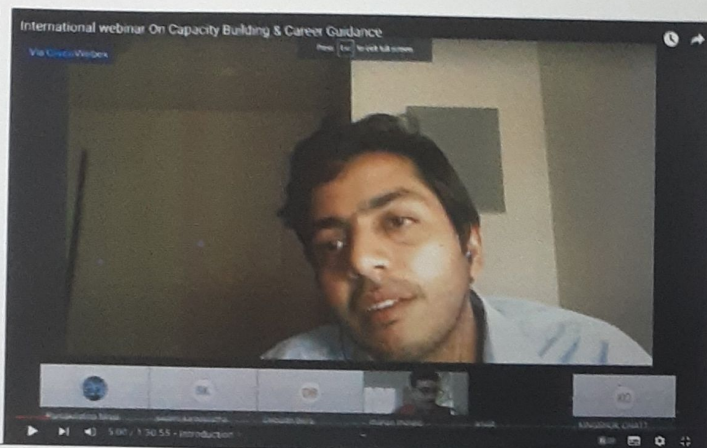
22 nd July, 2020	Webinar on Career prospects for students in higher education in the basic sciences - a contemporary perspective organised by Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara	Prof. Sarit K. Das , Director, Indian Institute of Technology (IIT)Ropar
Participants students, teachers and scholars: 135 He discussed the career opportunities which students may avail in the fields of research and teaching.		
		
22 nd July, 2020	Webinar on "Algorithm Design: An Overview of Recent Advancement" organised by Department of Computer Science, Ramakrishna Mission Vivekananda Centenary College, Rahara	Prof. Diptarka Chakraborty , Assistant Professor, National University of Singapore
Participants students, teachers and scholars: 82 He discussed the ways of developing an algorithm that can quickly identify new data patterns and then targeting new ads based on this data.		
		
23 rd July, 2020	International webinar on Capacity Building & Career Guidance organised by Department of	Dr. Anujit Chakraborty , Assistant Professor of Economics, University of California, Davis


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Computer Science, Ramakrishna
Mission Vivekananda Centenary
College, Rahara

Participants students, teachers and scholars: 52

He discussed the development of competencies and skills that can make students more efficient and sustainable, thus increasing the potential for charitable non-profits to enrich lives and solve society's most interactive problems.



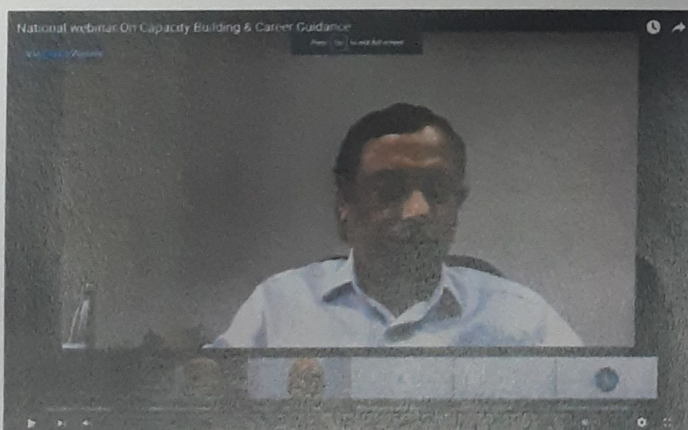
24th July, 2020

Webinar on Capacity Building & Career Guidance
organised by Department of
Microbiology, Ramakrishna Mission
Vivekananda Centenary College,
Rahara

Prof. Santanu Choudhury, Indian
Institute of Technology (IIT) Jodhpur

Participants students, teachers and scholars: 45

He discussed the development of competencies and skills that can make students more efficient and sustainable, thus increasing the potential for charitable non-profits to enrich lives and solve society's most interactive problems.



23rd August,
2020

International webinar on **Swami
Vivekananda : The man and His
message in a national perspective.**

**Revered Swami Devapriyanandaji
Maharaj**, The Spiritual Director,
Ramakrishna Vedanta Center,
Lusaka, Zambia

Sw. Kanakd.
Principal

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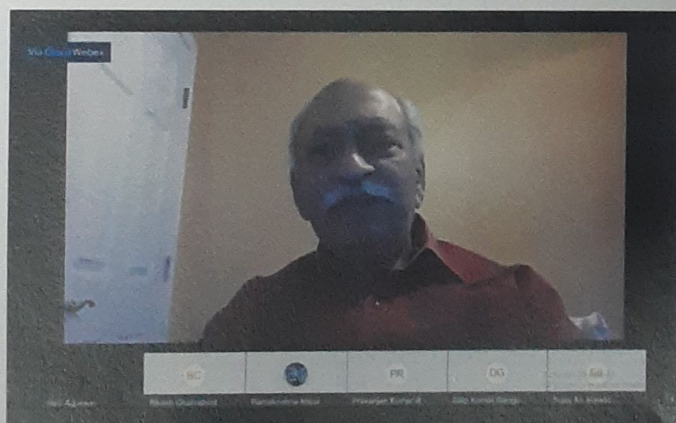
Participants students, teachers and scholars: 56

He discussed the relation of Swamiji's nationalism with spiritualism and the link of India's regeneration with the age-old tradition of spiritual goal.



<p>29th August, 2020</p>	<p>One Day International Webinar on Mathematics and Mathematical Sciences Topic: Are We Prepared To Accept The Reality? organised by Department of Mathematics, Ramakrishna Mission Vivekananda Centenary College, Rahara</p>	<p>Prof. Ravi P. Agarwal, Texas A & M University-Kingsville.</p>
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Participants students, teachers and scholars: 68



<p>26th September, 2020</p>	<p>Induction Programme for the Newly admitted students of Microbiology of the college organised by Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara</p>	<p>Prof. Pratip Kumar Kundu, Director Calcutta School of Tropical Medicine</p>
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G. K. Kundu
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Participants students, teachers and scholars: 38

He discussed the varied applications of Microbiology in our daily lifestyle and its advances and career prospects that the students can pursue.



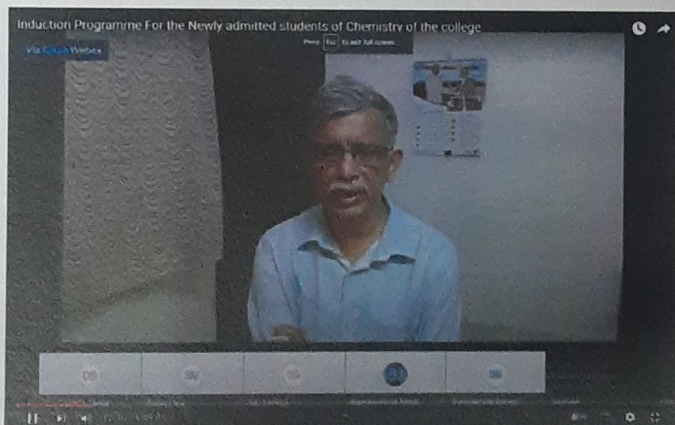
28th September,
2020

Induction Programme for the Newly admitted students of Chemistry of the college organised by Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara

Dr. Ashok Kumar Mishra,
Professor and Dean Academic Research, Department of Chemistry, IIT Madras.

Participants students, teachers and scholars: 64

He discussed the important roles that Chemical Sciences play in the growth and development of a number of industries in our society.



29th September,
2020

Induction Programme for the Newly admitted students of Zoology of the college organised by Department of Zoology, Ramakrishna Mission Vivekananda Centenary College, Rahara

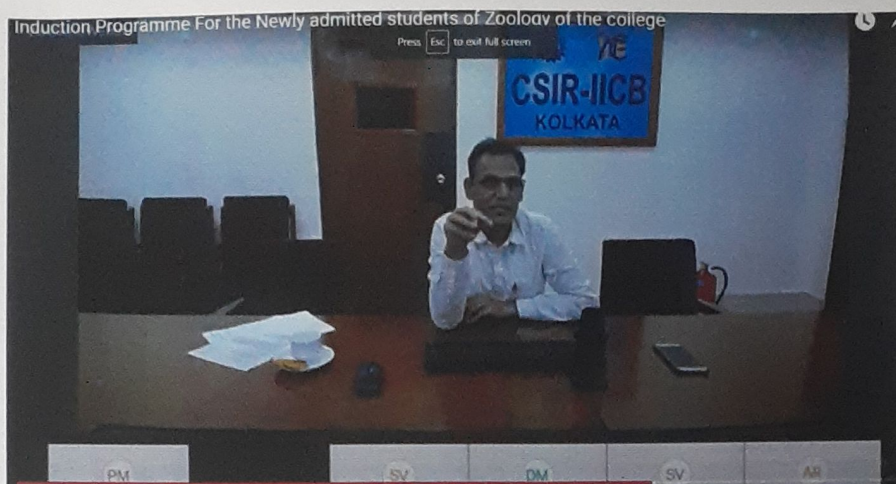
Prof. Arun Bandyopadhyay,
Director, Indian Institute of Chemical Biology (IICB)

Participants students, teachers and scholars: 66

He discussed the gain of understanding the natural world and how can we help with the conservation of fauna.

Sm. Karan
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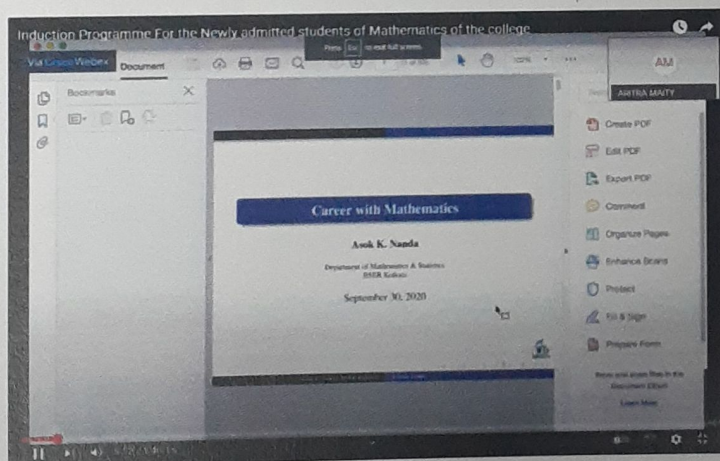
30th September,
2020

Induction Programme for the Newly admitted students of Mathematics of the college organised by Department of Mathematics, Ramakrishna Mission Vivekananda Centenary College, Rahara

Prof. Asok Kumar Nanda, Indian Institute of Science Education and Research- (IISER) Kolkata

Participants students, teachers and scholars: 66

He discussed the effective ways of building mental discipline and encouraged logical reasoning and mental rigor.



1st October,
2020

Induction Programme for the Newly admitted students of Physics of the college organised by Department of Physics, Ramakrishna Mission Vivekananda Centenary College, Rahara

Prof. Rajesh Gopakumar, International Centre for Theoretical Sciences (ICTS-TIFR), Bengaluru

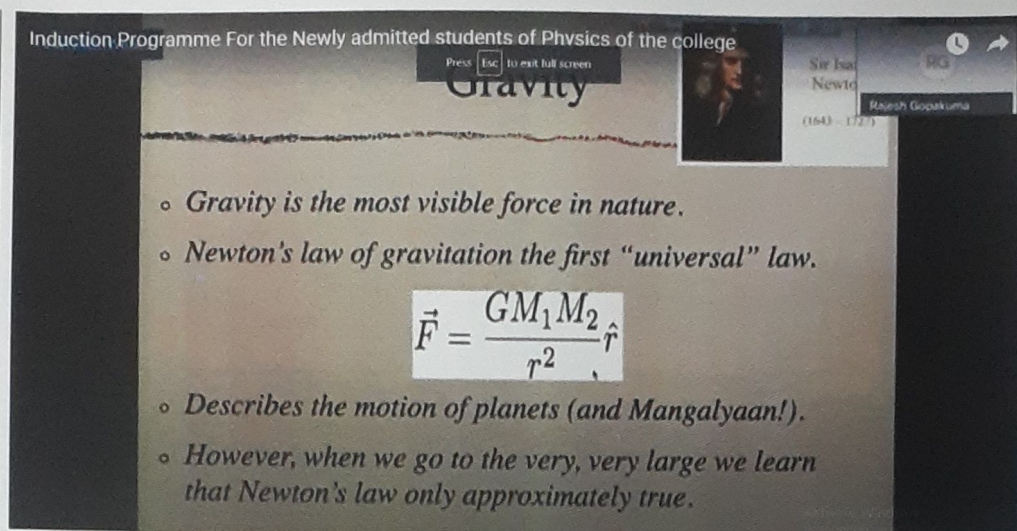
Participants students, teachers and scholars: 65

He discussed technological infrastructure and importance of trained personnel in scientific advances and discoveries.

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2 nd October, 2020	Induction Programme for the Newly admitted students of Computer Science of the college organised by Department of Computer Science, Ramakrishna Mission Vivekananda Centenary College, Rahara	Prof. Krishnendu Mukhopadhyay, ISI, Prof. In-charge, Advanced Computing and Microelectronics Unit, Indian Statistical Institute,
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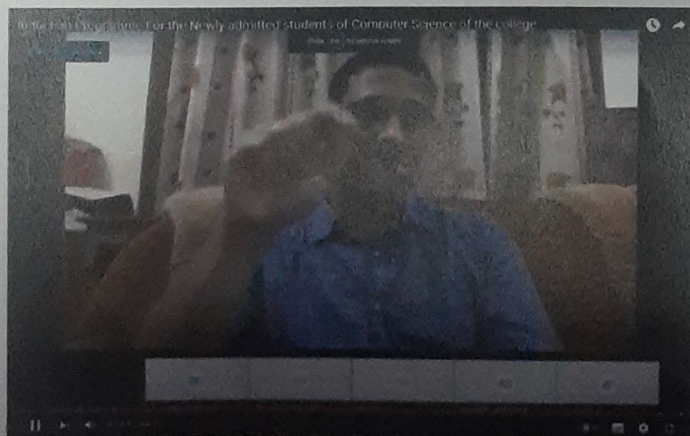
Participants students, teachers and scholars: 35

He discussed about the most important aspect of computer science, i.e- problem solving, an essential skill for life.

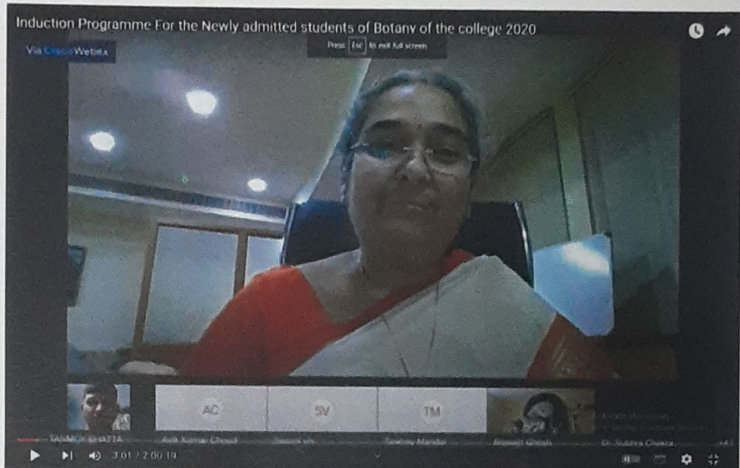
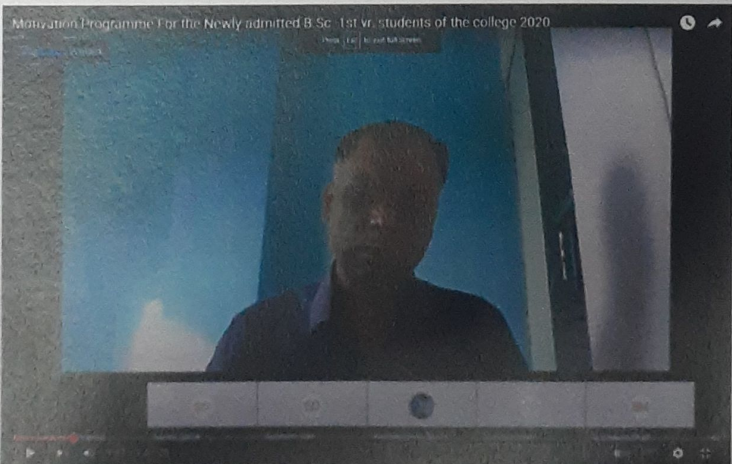
2 nd October, 2020	Induction Programme for the Newly admitted students of Computer Science of the college organised by Department of Computer Science, Ramakrishna Mission Vivekananda Centenary College, Rahara	Professor Amlan Chakrabarti, Professor and Director, A.K.Choudhury School of Information Technology, University of Calcutta
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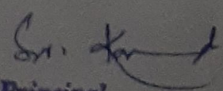
Participants students, teachers and scholars: 33

He discussed the designing, development and analysis of software and hardware used to solve problems in a variety of business, scientific and social contexts.



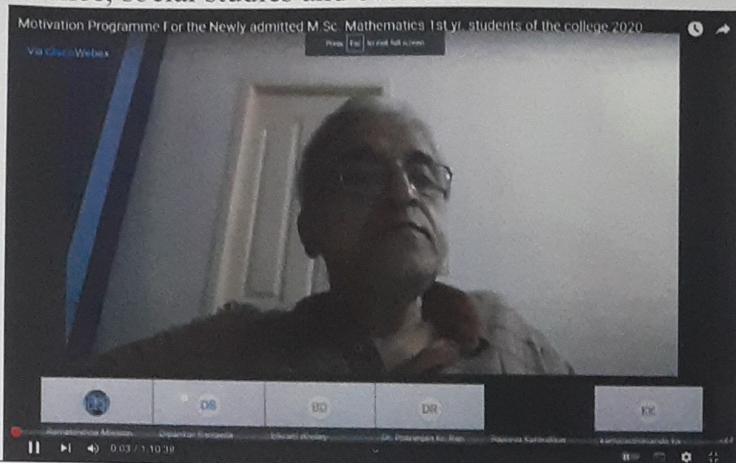
Sri. Karthik
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14 th October, 2020	Induction Programme for the Newly admitted students of Botany of the college 2020 organised by Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Subhra Chakraborty , Director, National Institute of Plant Genome research, New Delhi
Participants students, teachers and scholars: 49 He discussed the areas of economic productivity involved in the study of crops and ideal growing techniques that increase crop yield.		
		
8 th November, 2020	Motivation Programme For the Newly admitted B.Sc. students of the college 2020	Dr.Paromita Roy , Deputy Director, JBNSTS Dr.Smarajit Manna , Student Advisor, JBNSTS
Participants students, teachers and scholars: 245 He discussed the significance of sense of control and learning objectives that keep students motivated in their studies and work.		
		
13 th November, 2020	Motivation Programme For the Newly admitted M.Sc. Mathematics students of the college 2020	Prof Rajeeva Laxman Karandikar , Director, Chennai Mathematical Institute, H1 Sipcot IT Park, Siruseri, Kelambakkam


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Participants students, teachers and scholars: 50

He discussed the crucial role of mathematics in understanding the contents of other fields such as science, social studies and even art.



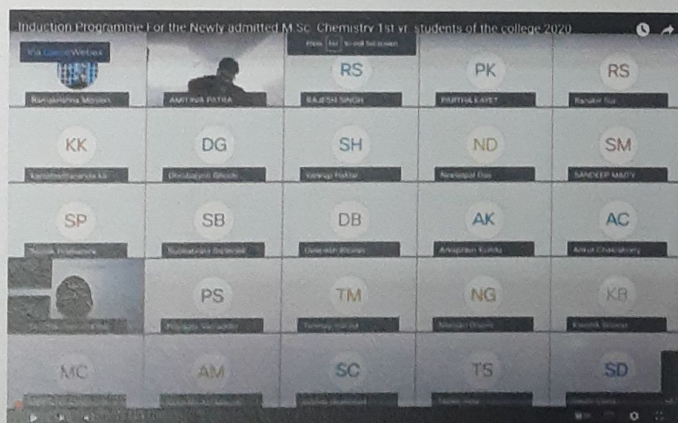
18th November,
2020

Induction Programme For the Newly
admitted M.Sc. Chemistry 1st yr.
students of the college 2020

Prof. Amitava Patra, FRSC,
FNASc, FASc Director, Institute of
Nano Science and Technology,
Government of India Habitat Centre,
Phase - X,

Participants students, teachers and scholars: 57

He discussed the role of Chemistry as the Central Science because of its ability to connect physical sciences with the life sciences and applied sciences.



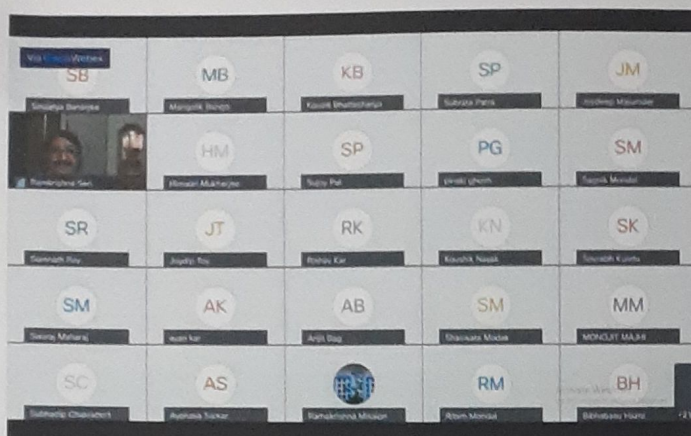
Induction Programme For the Newly
admitted M.Sc. Zoology 1st yr.
students of the college 2020

Dr. Subeer Majumdar, FNA,
FNASc, FASc, Director, National
Institute of Animal Biotechnology,
Hyderabad

Participants students, teachers and scholars: 39

He discussed the opportunities to consider ways to face global challenges such as climate change and food security, trying to find solutions to help both animals and humans.

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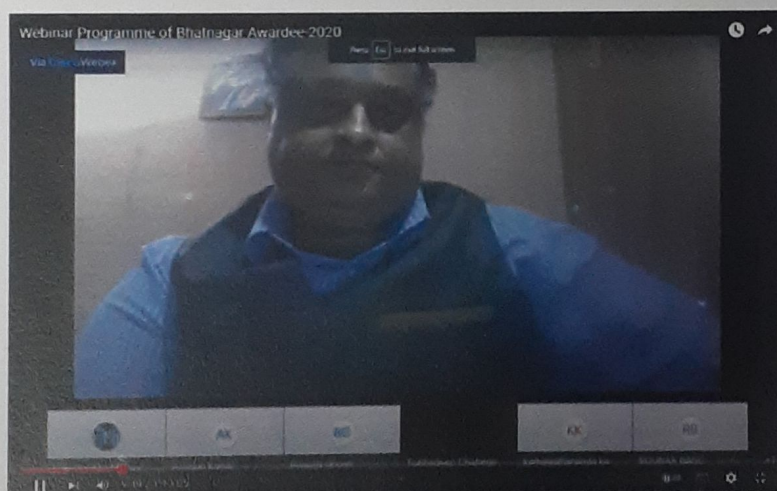
5th December,
2020

Webinar on ‘**Understanding the social language of bacteria: Speak or not to speak?**’ organised by Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara

Dr. Subhadeep Chatterjee, Scientist, Centre for DNA Fingerprinting & Diagnostics, Hyderabad-500039, Telengana (Bhatnagar Awardee-2020)

Participants students, teachers and scholars: 49

He discussed about the quorum sensing and cell signalling pathways in bacterial cellular system.



6th December,
2020

Webinar on **Covid-19: history, awareness and therapeutic** organised by Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara

Dr. Malabendu Jana, Assistant Professor, Rush University Medical Center Neurological Science, Chicago, IL-60612, USA
Topic- Covid-19: Possible strategies to prevent neurodegenerative diseases

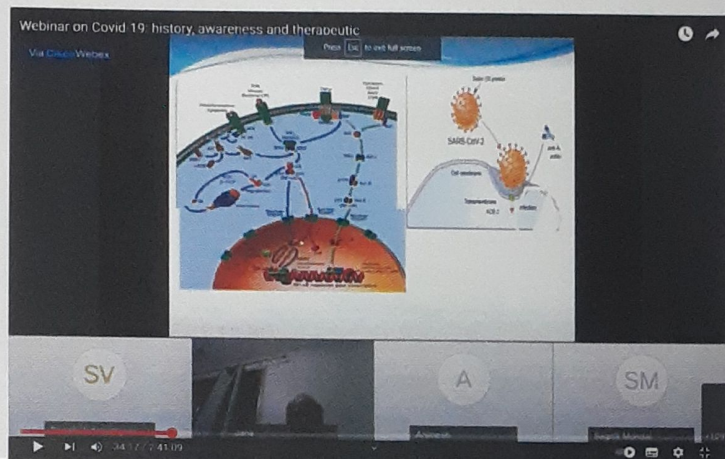
Prof. Projit Kumar Palit, Professor, Department of History, Jadunath Sarkar School of Social Sciences, Assam University, Silchar
Topic- Pandemic time and Educational Institutions : looking

S. K. Palit
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		to Positivity
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Participants students, teachers and scholars: 113

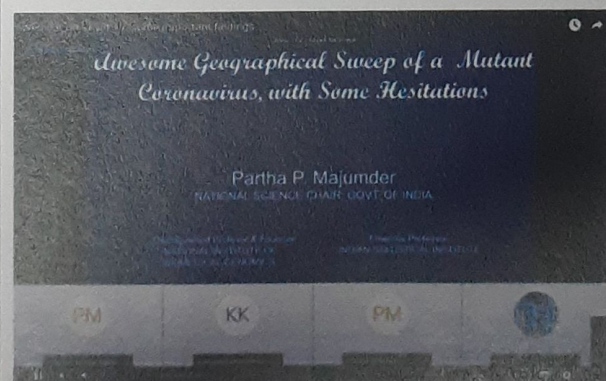
He discussed about the corona virus pandemic effectively, its therapeutic prevention and awareness of society in the coming times.

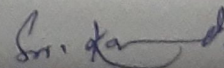


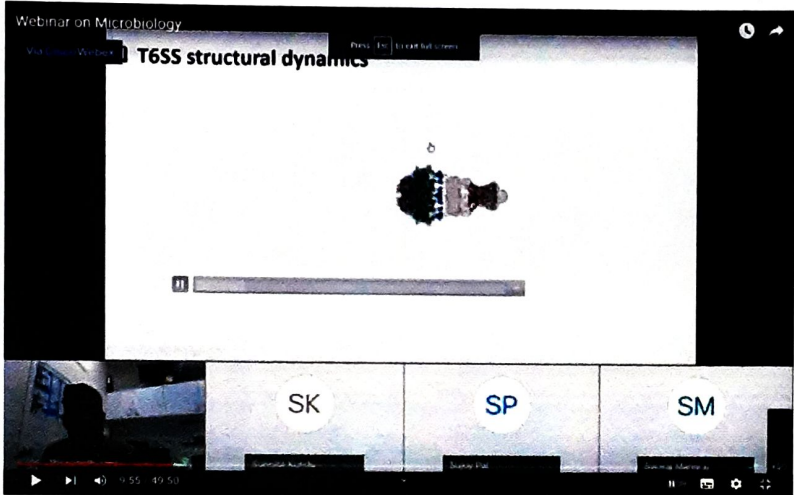
8 th December, 2020	Webinar on 'Awesome geographical sweep of a mutant coronavirus, with some hesitations.' organised by Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara	Prof. Partha P Majumder, Former Director, NIBMG, Kalyani and President, Indian Academy of Sciences.
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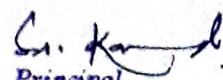
Participants students, teachers and scholars: 34

He discussed about the mutations of the SARS-CoV-2 spike protein, focussing on their impacts on antigenicity and contextualizing the in the protein structure.

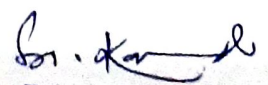



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11 th December, 2020	Webinar on " Bacterial warfare mediated by Type VI Secretion system " organised by Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Biswanath Jana , Department of Clinical Microbiology and Immunology, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel.
<p>Participants students, teachers and scholars: 54</p> <p>He discussed the roles of bacterial Type VI Secretion system in the establishment and perturbation of bacterial commensalism.</p>		
		
18th February, 2021	Workshop on Practical Demonstration on the dissection of Corbicula & Stinger of Honey Bees & Mouthparts of Mosquito " organised by Department of Zoology, Ramakrishna Mission Vivekananda Centenary College, Rahara	Sankarsan Roy , Ph. D. Research Scholar, Dept. of Zoology, Vidyasagar University
<p>Participants students, teachers and scholars: 44</p> <p>He discussed the detailed protocols for the dissection of certain organisms important in zoological sciences.</p>		
20 th February, 2021	Webinar on ' Scientific Beekeeping for Managed Pollination and Production of Quality Honey and other Hive Products ' organised by Department of Zoology, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Dipak Nayak , Sr. Scientist & In-Charge, ICAR-Central Institute for Subtropical Horticulture, Regional Research Station, Malda,
<p>Participants students, teachers and scholars: 56</p> <p>He discussed the excellent role of bee-keeping in pollination biology and production of various nutritionally valuable food products like honey.</p>		


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31 st March, 2021	Webinar on Tackling the Flu: From H1N1 to SARS-CoV-2 organised by Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Arindam Mondal , Assistant Professor, IIT Kharagpur
<p>Participants students, teachers and scholars: 43</p> <p>He discussed the characteristics of SARS-CoV-2 virus, its genomics, transmission process and preventive measures for the casual disease</p>		
8th May, 2021	Webinar on ' Amino Acids and Trisubstituted Methanes (TRSMs) as Versatile Synthons: Rays of Hope for Autophagic Cell Death and Tuberculosis respectively? ' organised by Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Gautam Panda Scientist F, Senior Principal Scientist & Professor CSIR-CDRI (Central Drug Resistant Research Institute), Lucknow
<p>Participants students, teachers and scholars: 56</p>		
9th May, 2021	Interdepartmental Workshop on ' How to write a review: through computational approach ' organised by Department of Zoology, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Ajoy Mallick , Assistant Professor, Department of Zoology, Ramakrishna Mission Vivekananda Centenary College, Rahara
<p>Participants students, teachers and scholars: 67</p> <p>He discussed about how a scientific review article is published in a journal</p>		
12th May, 2021	Webinar on Chiral checkpoints during protein biosynthesis	Dr. Rajan Sankaranarayanan , FNASc, FNA, Chief Scientist, Structural Biology Laboratory CSIR-Centre for Cellular and Molecular Biology (CCMB),


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Participants students, teachers and scholars: 43

He discussed about the most obvious impact of chirality that is seen in the shape of molecules and the laevorotatory amino acids that always give rise to right-handed helical proteins.

5 th June, 2021	World Environment Day Webinar on "Broken Chain of Events: connecting predation risk to prey population abundance" organised by Department of Zoology, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Maria Thacker , Associate Professor, Macrophysiology Lab, Centre for Ecological Sciences, IISc Bangalore,
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Participants students, teachers and scholars: 42

He discussed that as the prey population increases, there is more food for predators. So, after a slight lag, the predator population increases as well. As the number of predators increases, more prey are captured. As a result, the prey population starts to decrease.

6 th June, 2021	Workshop on Biostatistics & Bioinformatics organised by Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Sekhar Pal , Assistant Professor, Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara
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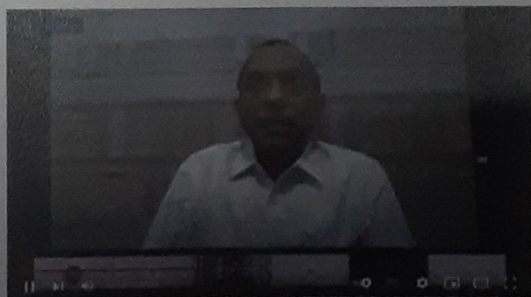
Participants students, teachers and scholars: 35

He discussed about the science of designing, conducting, analysing and interpreting studies aimed at improving public health and medicine.

24 th June, 2021	Celebration of 7th International Yoga Day Webinar on Yoga and Youth of India	<ul style="list-style-type: none">• Prof B. R. Ramakrishna, Vice Chancellor, Swami Vivekananda Yoga Anusandhana Samsthana• Prof. Y. Narahari, Dean of Division EECS, IISc, Bangalore• Dr. Sreekrishnan Venkiteswaran, CTO, GTS cloud unit, IBM
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Participants teachers and scholars: 98

They discussed about the impotence of Yoga. They said about different postures of Yoga. They also elaborated different types of Yoga. They also discussed about Yama (Positive Rules of meditations), Niyama (Prohibitory Rules of meditations), Asanas (Physical postures and movements) Pranayama (Breathing techniques), Pratyahara (Controlling the mind), Dharana (Gazing inward), Dhyana (Meditation with object), Samadhi (Meditation without object)



San. Kumar

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