

AGHOREKAMINI PRAKASHCHANDRA MAHAVIDYALAYA



(ESTD.-1959)

Accredited by NAAC at 'B' level

AFFILIATED TO THE UNIVERSITY OF BURDWAN & RECOGNIZED BY U.G.C.

SUBHASNAGAR ☆ P.O.- BENGAI ☆ P.S. – GOGHAT ☆ DIST.- HOOGHLY

PIN CODE-712 611 (W.B.)

STD.: 03211 ☎: 246 235 / 246 772, Fax: 913211 246 772,

Email: akpc_m@yahoo.co.in / info@akpcmahavidyalaya.org

Website: www.akpcmahavidyalaya.org

Ref. No.

Date...20/07/2020.

Notice

It is notified for the information of all concerned that a **One Day National Webinar on "Specialised Topics in Physics"** is going to be organised jointly by the Department of Physics and IQAC of the college on 27/07/20 at 11.00 a.m. Link of the Webinar will be given on 27/07/2020 to the College WhatsApp Group.

Platform: Google Meet.

All teachers, non-teaching staff and students of the college are requested to cooperate with the Department of Physics & IQAC for the successful completion of the desired programme.

Dr. Paramartha Ghosh




Principal
A.K.P.C. Mahavidyalaya
P.O.- Bengal, Dt. Hooghly

Event Report on the One Day National Webinar on “Specialised Topics in Physics”.

Department:	The Department of Physics & IQAC (Internal Quality Assurance Cell), AKPC Mahavidyalaya & APC College, Kolkata.
Date of Event:	27/07/2020
Topic:	Astronomy, Quantum, Computation
Event Category:	Webinar
Level International/National/State/College(Local)	National Level
No. of Participants:	1. Students of APC College : 50 2. Students of AKPC Mahavidyalaya: 33
Resource person/ Judge/Guest (With designation)	<ol style="list-style-type: none">1. Dr. Paramartha Ghosh , Principal , AKPC Mahavidyalaya , Bengai Hooghly2. Dr. Supratik Pal, Professor, ISI, Kolkata.3. Dr. Anirban Pathak, Professor, IIIT, Noida.
Brief Report: The Dept. of Physics & IQAC of our college, organised a National level Webinar on “Specialised Topics in Physics” on 27/07/2020 in collaboration with APC College, Kolkata. The focus of the Webinar was on Astronomy, Quantum computation. Dr. Paramartha Ghosh, Principal, AKPC Mahavidyalaya, Bengai, Hooghly, Dr. Supratik Pal, Professor, ISI, Kolkata, Dr. Anirban Pathak, Professor, IIIT, Noida, delivered their valuable talks on astronomy, quantum, computation, enriching the participants. 83 students benefited from this deliberation.	




Principal

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Specialised topics in Physics dated on 27/7/2020

SL. NO	Name	Participant
1.	ACHINTA BIWAS	6 th Semester
2.	SHOVAN SARKAR	6 th Semester
3.	FIROJA BEGUM	6 th Semester
4.	TANMAY BAGUI	6 th Semester
5.	ANIRUDDHA KUMAR BANGAR	6 th Semester
6.	AMIT DOLUI	6 th Semester
7.	AMIT DHARA	6 th Semester
8.	ACHINTA BIWAS	6 th Semester
9.	SHOVAN SARKAR	6 th Semester
10.	FIROJA BEGUM	6 th Semester
11.	ANINDITA DAS	4 th Semester
12.	AMIT DIGAR	4 th Semester
13.	AHAMMAD ULLA KHAN	4 th Semester
14.	FARHANA KHATUN	4 th Semester
15.	MANAS KUMAR ROY	4 th Semester
16.	PAPIYA DAS	4 th Semester
17.	TUSHAR SUBHRA ARI	4 th Semester
18.	MADHUMITA MADDUNEY	4 th Semester
19.	BRISTI KUNDU	4 th Semester
20.	PAYEL SAMUI	4 th Semester
21.	SHRABANTI CHATTERJEE.	4 th Semester
22.	AYANIKA DEY	4 th Semester
23.	SANJAY KARMAKAR	4 th Semester
24.	SOVAN MUKHERJEE	4 th Semester
25.	SAYANTAN PANJA	4 th Semester
26.	BUDDHADEV GORAI	4 th Semester
27.	PAMPA DE	4 th Semester
28.	ARITRA LIKEL	4 th Semester
29.	SUMAN KARMAKAR	4 th Semester
30.	JAYANTI PALADHI	4 th Semester
31.	ANINDITA DAS	4 th Semester
32.	AMIT DIGAR	4 th Semester
33.	AHAMMAD ULLA KHAN	4 th Semester
34.	FARHANA KHATUN	4 th Semester
35.	MANAS KUMAR ROY	4 th Semester
36.	PAPIYA DAS	4 th Semester
37.	TUSHAR SUBHRA ARI	4 th Semester




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38.	MADHUMITA MADDUNEY	4 th Semester
39.	BRISTI KUNDU	4 th Semester
40.	PAYEL SAMUI	4 th Semester
41.	SHRABANTI CHATTERJEE.	4 th Semester
42.	AYANIKA DEY	4 th Semester
43.	ANKITA CHATTERJEE.	6 th Semester
44.	RIMA DAWN	6 th Semester
45.	PRIYA KAR	6 th Semester
46.	ANANYA GHOSH	6 th Semester
47.	TARASANKAR HEMRAM	6 th Semester
48.	MOUMITA MULA	6 th Semester
49.	ASLAM MOLLA	6 th Semester
50.	ANANYA KARAK	6 th Semester
51.	SAHITYA PATRA	6 th Semester
52.	ANWASHA NANDI	6 th Semester
53.	RITUPARNA MAUR	6 th Semester
54.	SUDIPTA DAS	6 th Semester
55.	KALYAN PANJA	6 th Semester
56.	HIMADRI BISWAS	6 th Semester
57.	SHREYA DE	6 th Semester
58.	LAGNASHREE NANDI	6 th Semester
59.	DIBYENDU DEY	6 th Semester
60.	SAIKAT HAZRA	6 th Semester
61.	SUMANA DE	6 th Semester
62.	SUNANDITA BISWAS	6 th Semester
63.	RAMA PRASAD SARKAR	2 nd Semester
64.	JASMINE KHATUN	2 nd Semester
65.	SANTANU SEN	2 nd Semester
66.	TANMOY CHATTOPADHYAY	2 nd Semester
67.	PIJUSH MANDAL	2 nd Semester
68.	AMIT PAL	2 nd Semester
69.	SUMITA PANDIT	2 nd Semester
70.	GIRIRAJ DE	2 nd Semester
71.	SAIKAT BHUNIA	2 nd Semester
72.	ASHRAFUL CHOWDHURI	2 nd Semester
73.	SOHAM GANGULY	2 nd Semester
74.	AVIJIT ROY	2 nd Semester
75.	PURNENDU ROY	2 nd Semester
76.	RAJKUMAR KHAN	2 nd Semester
77.	SUMAN MUKHERJEE	2 nd Semester
78.	KUSHAL GHOSH	2 nd Semester




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79.	NILANJAN SINGHA	2ndSemester
80.	PRITAM PRATI HAR	2ndSemester
81.	PARTHA PRATIM PAUL	2ndSemester
82.	PIU GAYAN	2ndSemester
83.	SUSHOVAN DHARA	2ndSemester



Principal
A.K.P.C. Mahavidyalaya
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Timestamp	Email address	Name	Salutation
7/27/2020 17:00:31	goutammishra1234@gmai	GOUTAM MISHRA	Mr.
7/27/2020 17:00:56	ritankarmitra1@gmail.com	RITANKAR MITRA	Mr.
7/27/2020 17:01:05	ashokehazra.physics@gm	ASHOKE HAZRA	Mrs.
7/27/2020 17:01:13	tataimaitra1996@gmail.co	Sutirtha Maitra	Mr.
7/27/2020 17:01:18	esaprobahinidey@gmail.c	Esaprobahini Dey	Ms.
7/27/2020 17:01:22	niskumari1997@gmail.cor	Nisha Kumari	Ms.
7/27/2020 17:01:25	protaysaha765@gmail.cor	PROTAY SAHA	Mr.
7/27/2020 17:01:39	bhoumikatanu2@gmail.co	Atanu Bhoumik	Mr.
7/27/2020 17:01:41	arghyaduttakbu@gmail.co	Arghya Dutta	Mr.
7/27/2020 17:01:52	surupghosh@gmail.com	SURUP GHOSH	Mr.
7/27/2020 17:01:54	abhijitpatra200100@gmail	Abhijit patra	Mr.
7/27/2020 17:02:24	debangshi52@gmail.com	Debangshi Maitra	Ms.
7/27/2020 17:02:33	anupamsaha759153@gm:	Anupam Saha	Mr.
7/27/2020 17:03:02	madhusree.maji@gmail.cc	MADHUSREE MAJI	Ms.
7/27/2020 17:03:09	ankitaghosh838@gmail.cc	Ankita Ghosh	Ms.
7/27/2020 17:03:18	rahulpalscience2000@gm:	Rahul Pal	Mr.
7/27/2020 17:03:24	pitikamondal399@gmail.c	Pitika Mondal	Ms.
7/27/2020 17:04:06	ankitahaldar710@gmail.cc	Ankita Haldar	Ms.
7/27/2020 17:04:09	arijitmandal1997@gmail.c	ARIJIT MANDAL	Mr.
7/27/2020 17:04:33	akashdas14092001@gma	Akash Das	Mr.
7/27/2020 17:04:35	sayani.dass17@gmail.com	Sayoni Das	Ms.
7/27/2020 17:04:47	soumyadipdaskv@gmail.c	Soumyadip Das	Mr.
7/27/2020 17:05:48	rajesh.0000.rs@gmail.com	Rajesh sarkar	Mr.
7/27/2020 17:06:19	koushikighosh1234@gmai	Koushiki Ghosh	Ms.
7/27/2020 17:06:46	mondalsurajit898@gmail.c	Surajit Mondal	Mr.
7/27/2020 17:06:49	physicsinformation96@gm:	PARTHA HALDER	Mr.
7/27/2020 17:07:03	debjani.karmakar05@gma	Debjani Karmakar	Ms.
7/27/2020 17:07:38	gwbiplab@gmail.com	Dr. Biplab Goswami	Dr.
7/27/2020 17:07:46	tanmoybairy541@gmail.cc	Tanmay Bairy	Mr.
7/27/2020 17:07:51	paulshatabdi208@gmail.c	Shatabdi Paul	Ms.
7/27/2020 17:07:52	tanmay.kastha@gmail.cor	TANMAY KASTHA	Mr.
7/27/2020 17:08:00	asn.shreya@gmail.com	Shreya Bhattacharjee	Ms.
7/27/2020 17:08:02	arghyadeep.ng@gmail.cor	ARGHYADEEP NAG	Mr.
7/27/2020 17:08:10	layekanimesh@gmail.com	Dr. Animesh Layek	Dr.
7/27/2020 17:08:49	sahinaparvinphysics@gm:	Sahina Parvin	Mrs.
7/27/2020 17:09:13	apcbikram1999@gmail.co	BIKRAM BAIDYA	Mr.
7/27/2020 17:09:16	pitikamondal@gmail.com	Subhajit Mondal	Mr.
7/27/2020 17:09:26	shreyabanerjee257@gmai	SHREYA BANERJEE	Ms.
7/27/2020 17:10:35	barshamalakar1959@gma	Barsha Malakar	Ms.
7/27/2020 17:11:41	sdas92174@gmail.com	SUVANKAR DAS	Mr.
7/27/2020 17:11:49	sibaprasadjana2000@gm:	Sibaprasad Jana	Mr.
7/27/2020 17:11:52	subhajitg656@gmail.com	Subhajit Ghosh	Mr.
7/27/2020 17:12:04	sayantanghosh1999@gm:	Sayantana Ghosh	Mr.

7/27/2020 17:12:04	rphyd99@gmail.com	Rahul Dey	Mr.
7/27/2020 17:12:56	sreyashibhattacharya8356	Sreyashi Bhattacharya	Ms.
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7/27/2020 17:14:54	mail2jamilmondal@gmail.	Md Jamil Hossain Mondal	Mr.
7/27/2020 17:15:32	rounaksen33@gmail.com	Rounak Sen	Mr.
7/27/2020 17:15:54	mdamirulmondal4@gmail.	MD AMIRUL MONDAL	Mr.
7/27/2020 17:17:26	1999avijitkar19@gmail.co	Avijit Kumar Kar	Mr.
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7/27/2020 17:18:41	yasin3587@gmail.com	Sk Mohammad Yasin	Dr.
7/27/2020 17:18:45	amitkumarmaity16@gmail	Amit Kumar Maity	Mr.
7/27/2020 17:20:35	ramratansingha7890@gm	Ram Ratan Singha	Mr.
7/27/2020 17:20:56	sayandharaofficial@gmail	Sayan Dhara	Mr.
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7/27/2020 17:23:23	dasguptameghna007@gm	Meghna Dasgupta	Ms.
7/27/2020 17:25:31	swarnalinh3@gmail.com	Swarnali Mukherjee	Ms.
7/27/2020 17:26:14	debasis_opt@yahoo.co.in	Debasis Das	Dr.
7/27/2020 17:26:22	bakulirima@gmail.com	Rima Pal	Dr.
7/27/2020 17:28:35	madhu_sg2000@yahoo.cc	Madhusudan Ghosh	Dr.
7/27/2020 17:31:47	jsaha84@gmail.com	JAYANTA KUMAR SAHA	Dr.
7/27/2020 17:32:50	s_mandal2012@rediffmail	Sandip Mandal	Dr.
7/27/2020 17:33:09	bhaswatimondal71@gmail	BHASWATI MONDAL	Ms.
7/27/2020 17:35:07	moitreyeehalder9@gmail.	Moitreyee Halder	Ms.
7/27/2020 17:36:15	sanketsakar22@gmail.con	Sanket Sarkar	Mr.
7/27/2020 17:38:55	soumitaghosh354@gmail.	Supriyo Ghosh	Mr.
7/27/2020 17:41:22	arkapravobera@gmail.con	ARKAPRAVO BERA	Mr.
7/27/2020 17:41:44	rohnch@protonmail.ch	Rohn Chatterjee	Mr.
7/27/2020 17:42:01	rajibmandal75@gmail.con	Rajib Kumar Mandal	Mr.
7/27/2020 17:42:27	dass88044@gmail.com	Sayantani Das	Ms.
7/27/2020 17:42:42	brc.bts@gmail.com	BASUDEB ROY CHAUDH	Mr.
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7/27/2020 17:44:29	shampa.rcd@gmail.com	Dr. Shampa Mondal	Dr.
7/27/2020 17:46:51	janaarpita2001@gmail.cor	Arpita Jana	Ms.
7/27/2020 17:47:51	mr.dipayanpan@gmail.cor	DIPAYAN PAN	Mr.
7/27/2020 17:48:09	tanushreesahu76@gmail.c	TANUSHREE SAHU	Dr.
7/27/2020 17:50:27	apurbamaji010@gmail.cor	Apurba Maji	Mr.
7/27/2020 17:54:04	swagatabanik037@gmail.c	SWAGATA BANIK	Ms.
7/27/2020 17:59:27	sghoshphysics@gmail.cor	SHYAMSUNDAR GHOSH	Dr.
7/27/2020 17:59:48	anjanphy21@gmail.com	Anjan Sadhukhan	Mr.
7/27/2020 18:05:40	dalal.madhumita@gmail.c	Madhumita Dalal	Dr.
7/27/2020 18:06:19	mainak216@gmail.com	Mainak Chatterjee	Mr.
7/27/2020 18:06:38	harendranathbarman@gm	Harendra Nath Barman	Mr.

7/27/2020	18:06:52	biku.mdm@gmail.com	Bikash Kumar Sarkar	Mr.
7/27/2020	18:07:40	soumya50052@gmail.com	Soumyadip Ghosh	Mr.
7/27/2020	18:08:00	bakshisouradeep@gmail.c	Souradeep Bakshi	Mr.
7/27/2020	18:08:55	oindrila.rng@gmail.com	Oindrila Mondal	Dr.
7/27/2020	18:09:00	tkb.tkbose@gmail.com	Tushar Kanti Bose	Dr.
7/27/2020	18:09:22	tuhindebnath990@gmail.c	TUHIN DEBNATH	Mr.
7/27/2020	18:12:36	akashnandi88197@gmail.	Akash Nandi	Mr.
7/27/2020	18:12:48	sayanghosh9870@gmail.c	Sayan Ghosh	Mr.
7/27/2020	18:13:03	sumana.podder.51@gmail	Sumana Podder	Ms.
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7/27/2020	18:17:16	gbiswas.08@gmail.com	Goutam Biswas	Dr.
7/27/2020	18:18:17	arnabindia.edu@gmail.cor	ARNAB HALDER	Mr.
7/27/2020	18:19:43	2020sutanuroy@gmail.cor	SUTANU ROY	Mr.
7/27/2020	18:22:52	kundurita03@gmail.com	Rita Kundu	Ms.
7/27/2020	18:26:01	baishakhigluon@gmail.cor	Baishakhi Maurh	Ms.
7/27/2020	18:26:48	01pramiti@gmail.com	Pramiti Bhowmik	Ms.
7/27/2020	18:30:28	arindamsalt@gmail.com	ARINDAM DUTTA	Mr.
7/27/2020	18:31:31	babusonasarkar@gmail.cc	Babusona Sarkar	Dr.
7/27/2020	18:34:42	rajdip.banerjee9696@gma	Rajdip Banerjee	Mr.
7/27/2020	18:44:22	cklaha1947@gmail.com	Chanchal Kumar Laha	Mr.
7/27/2020	18:53:00	pujaganguly69@gmail.cor	Puja Ganguly	Ms.
7/27/2020	18:53:05	sirshendu96478372@gma	Sirshendu Samanta	Mr.
7/27/2020	18:58:22	amritabiswas123@gmail.c	Amrita Biswas	Mr.
7/27/2020	19:10:14	apurba793@gmail.com	APURBA KUMAR MANDAL	Mr.
7/27/2020	19:14:19	mayukh13@gmail.com	Mayukh Sadhukhan	Mr.
7/27/2020	19:30:46	mahananda210499@gmai	Mahananda Karmakar	Mr.
7/27/2020	19:35:09	disa.roy01@gmail.com	Disa Roy	Ms.
7/27/2020	19:52:38	akarakpc@yahoo.com	Ashish Kar	Dr.
7/27/2020	20:02:28	anupam.iacs@gmail.com	Anupam Banerjee	Mr.
7/27/2020	20:02:34	rabinsamanta37379@gma	RABIN SAMANTA	Mr.
7/27/2020	20:11:44	sayantandutta786@gmail.	Sayantana Dutta	Mr.
7/27/2020	20:23:04	donnandi09@gmail.com	Tarit Nandi	Mr.
7/27/2020	20:26:52	patrasourav885@gmail.co	Sourav Patra	Mr.
7/27/2020	20:35:43	ashis_phys@akpcmahavic	ASHIS MONDAL	Mr.
7/27/2020	20:52:17	soumyadeep1.ghosh@stu	SOUMYADEEP GHOSH	Mr.
7/27/2020	21:09:40	sampita.chat.19@gmail.	Sampita Chatterjee	Ms.
7/29/2020	21:35:06	sourav.math.ju@gmail.cor	Sourav Haldar	Dr.
7/29/2020	21:35:42	surajitguin.physics@gmail	SURAJIT GUIN	Mr.
7/29/2020	21:52:19	sarkar.sirajuddin@gmail.c	SIRAJUDDIN SARKAR	Mr.
7/29/2020	21:58:01	provash.pjr@gmail.com	Provash Joarddar	Mr.
7/30/2020	20:06:11	shreyasijana1234@gmail.	SHREYASI JANA	Ms.

Institution (as it will appear)	Phone number	Which talk did you listen to	How relevant is the webinar
Sovarani Memorial College	9681034371	both talks	5
ACHARYA PRAFULLA CHANDRA	7908014713	both talks	5
ACHARYA PRAFULLA CHANDRA	9647131342	both talks	3
Acharya Prafulla Chandra	9433785278	both talks	4
Acharya Prafulla Chandra	7980138415	both talks	5
Acharya Prafulla Chandra	7059988798	both talks	4
ACHARYA PRAFULLA CHANDRA	9933329527	both talks	4
Acharya Prafulla Chandra	7076419934	both talks	4
Midnapore College (Autonomous)	6296906378	both talks	4
Acharya Prafulla Chandra	8145046066	both talks	5
Midnapore college(Autonomous)	9083598211	both talks	5
Acharya Prafulla Chandra	6290880487	both talks	5
ADAMAS University	7003491740	both talks	5
ACHARYA PRAFULLA CHANDRA	8697430158	both talks	5
Vidyasagar University	7001744963	both talks	5
Midnapore College	9735104626	both talks	5
Acharya Prafulla Chandra	9804723662	2nd talk	5
Acharya Prafulla Chandra	9330861142	both talks	4
VISVESVARAYA NATIONAL UNIVERSITY	8768076397	both talks	5
Acharya Prafulla Chandra	8101792201	both talks	5
Acharya Prafulla Chandra	7003059032	both talks	5
Acharya Prafulla Chandra	9163312882	both talks	5
Acharya Prafulla Chandra	9679964813	both talks	4
Apc college	9007063478	both talks	5
Acharya Prafulla Chandra	+918944908608	both talks	5
ACHARYA PRAFULLA CHANDRA	7029944583	both talks	5
Acharya Prafulla Chandra	9330932687	both talks	5
Sreegopal Banerjee College	9434348335	both talks	5
A.K.P.C.Mahavidyalaya	9614778391	both talks	4
Acharya Prafulla Chandra	6002474600	both talks	3
ACHARYA PRAFULLA CHANDRA	7098136671	both talks	5
Acharjya prafula chandra	7551813293	both talks	5
ACHARYA PRAFULLA CHANDRA	7384249150	both talks	5
B N Mahavidyalaya, Itanagar	9932624206	both talks	5
Acharya Prafulla Chandra	8240488762	both talks	5
WEST BENGAL STATE UNIVERSITY	9836945368	both talks	5
Acharya Prafulla chandra	7605898903	both talks	5
Acharya Prafulla Chandra	9679136330	both talks	4
Acharya Prafulla Chandra	8583971223	both talks	4
ACHARYA PRAFULLA CHANDRA	9163802761	both talks	4
Midnapore College (Autonomous)	9002231854	2nd talk	5
Acharya Prafulla Chandra	9123876363	1st talk	4
Banaras Hindu University	9732666659	both talks	5

Institute of Radio Physics :	7439177046 both talks	5
Acharya Prafulla Chandra	8420074918 both talks	4
Acharya prafulla Chandra	9674166839 both talks	4
Acharya Prafulla Chandra	9123342796 both talks	4
Acharya Prafulla Chandra	8017410391 both talks	5
Acharya prafullo chandra c	8145346553 both talks	4
Acharya Prafulla Chandra	7044675542 both talks	5
A B N SEAL COLLEGE	9732741013 both talks	5
Jadavpur University	8240811034 both talks	4
Berhampore Girls' College	9434148053 1st talk	5
Bejoy Narayan Mahavidya	9566022968 both talks	5
Sir Gurudas Mahavidyalay	9382674736 both talks	5
Sir Gurudas Mahavidyalay	7044731137 both talks	4
Acharya Prafulla Chandra	7908864470 both talks	5
Netaji Mahavidyalaya	9474752955 both talks	5
ACHARYA PRAFULLA CH	7076434049 both talks	4
Acharya Prafulla Chandra	8013144534 both talks	5
Acharya Prafulla Chandra	8777290454 both talks	3
Ramananda Centenary Ce	7003884601 both talks	5
Sreegopal Banerjee Colleg	9831718122 1st talk	5
Government General Degi	9432989926 both talks	5
Department of Physics, Ali	9434355907 both talks	5
Ramakrishna Mission Siks	6294238961 both talks	5
ACHARYA PRAFULLA CH	8509135973 both talks	5
Acharya Prafulla Chandra	9874647727 both talks	5
Seth Anandram Jaipuria c	9749288713 both talks	4
Akpc Mahavidyala	9093225844 both talks	5
BANARAS HINDU UNIVE	8250621093 both talks	5
Acharya Prafulla Chandra +91 9883728916	both talks	3
A.K.P.C.MAHAVIDYALAY	9434540137 both talks	5
Acharya Prafulla Chandra	8647871307 2nd talk	4
Bijoy Krishna Girls'College	9434834020 both talks	5
Bajkul Milani Mahavidyala	9563519174 1st talk	3
AKPC Mahavidyalaya, Bel	9434834090 both talks	5
Presidency University	7407444662 both talks	5
Acharya Prafulla Chandra	8420424466 both talks	4
SETH ANANDRAM JAIPU	9163870815 both talks	3
Acharya Prafulla Chandra	7872889025 both talks	5
Dumdum Motijheel Colleg 08436300897	both talks	5
BEJOY NARAYAN MAHA	7890490013 both talks	5
Adamas University	9681121696 both talks	4
Bejoy Narayan Mahavidya	9064999180 both talks	5
Barasat Government Colle	6290978964 both talks	5
Mathabhanga College	8101076404 both talks	5

Mrinalini Datta Mahavidya	8910539134	both talks	5
Aghorekamini Prakashcha	+918609900665	both talks	4
Bejoy Narayan Mahavidya	9800026334	1st talk	4
M.U.C Women's College,	9832016211	both talks	4
Srikrishna College, Bagula	8420785157	1st talk	3
ACHARYA PRAFULLA CH	9874340387	1st talk	4
Midnapore College	6296559305	both talks	4
Acharya Prafulla Chandra	7596866617	both talks	5
ACHARYA PRAFULLA CH	8609415024	both talks	4
Aliah University	8001024498	both talks	5
Sir Gurudas Mahavidyalay	8927390620	both talks	4
Academy of Technology, I	9831484294	both talks	5
A P C College, New Barra	9433051960	both talks	4
Acharya Prafulla Chandra	9933778506	both talks	4
AKPC MAHAVIDYALAYA	8436914120	1st talk	5
Seth Anandram Jaipuria C	8335083657	both talks	4
Panskura Banamali Colleg	8967936678	both talks	5
Seth Anandram Jaipuria C	9432201438	both talks	4
Jaypee institute of informa	9681298060	both talks	5
Sri Ramkrishna Sarada Vi	9800142945	both talks	4
Aghorekamini Prakashcha	6295791223	both talks	5
AGHORE KAMINI PRAKA	7431926599	both talks	5
AKPC college	9002169764	both talks	5
Acharya Prafulla Chandra	8372998659	both talks	5
Acharya Prafulla Chandra	9563531864	both talks	5
ACHARYA PRAFULLA CH	9932345906	1st talk	5
Adams University	9038615800	both talks	4
Akpc mahavidyalaya	6295117320	both talks	5
MUC Women's College,Bu	9064816136	both talks	5
Aghorekamini Prakashcha	8583006239	both talks	4
Indian Association for the	8670012230	both talks	3
AGHOREKAMINI PRAKA	9064342215	both talks	5
Belgharia Texmaco Estate	9836707168	both talks	5
A.K.P.C. Mahavidyalaya	8695477827	both talks	5
Bankura University	08670320505	both talks	5
AGHOREKAMINI PRAKA	6297463023	both talks	5
ADAMAS UNIVERSITY	8240772715	both talks	5
Bethune College , Univers	9330048629	both talks	4
Aghorekamini Prakashcha	9123374492	both talks	4
AKPC MAHAVIDYALAYA	9734707361	both talks	5
Behala college	9734884945	1st talk	5
Behala college	9609389090	both talks	5
Midnapore College(Auton	7047101718	both talks	5

How do you give overall r2 Do you need an E-certific Declaration: I do hereby certify that all information gi

10 Yes	Yes.
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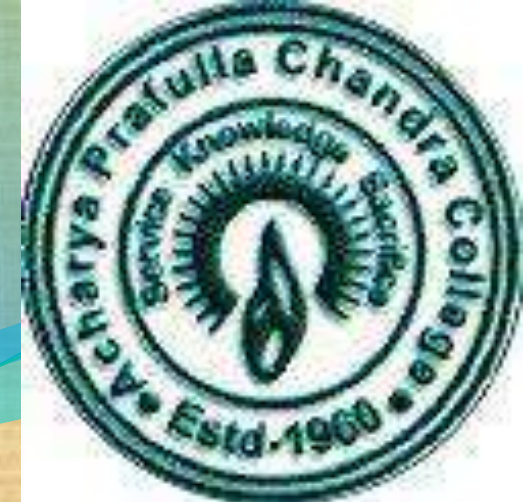
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ven here are correct.



National Webinar

On



Specialized topics in Physics

(Topic: Astronomy, Quantum Computation)

Organized by

A.K.P.C. MAHAVIDYALAYA & A.P.C. COLLEGE

(Department of Physics in collaboration with IQAC)

Time: 2:30 – 5:00 pm on 27th July, 2020

SPEAKERS



Dr. Supratik Pal

Professor, ISI Kolkata



Dr. Anirban Pathak

Professor, IIT Noida

Talk-title:

Unveiling the mysteries of our Universe with telescopes.

Are Quantum Technologies going to change the world?

Online Platform: Google meet

Register for free at <https://forms.gle/gUCgftZZzehcgH647>

Deadline: July 25. Capacity: 200 participants. E-certificates to be issued.

For queries, contact

Dr. Sukhamoy Bhattacharyya .
Email: sukhamoy.b@gmail.com
Phone: 9143546426.
Acharya Prafulla chandra
College, Kolkata, W.B. 700131.

Dr. Satyaki Kar.
Email: satyaki_phys@akpcmahavidyalaya.org
Phone: 7548097562.
Aghorekamini Prakashchandra
Mahavidyalaya, Bengai, W.B. 712611.



National Webinar on Specialized Topics in Physics

(Topic: Astronomy, Quantum Computation)

Date: 27th July, 2020.

Organized by

A.K.P.C. MAHAVIDYALAYA & A.P.C. COLLEGE

(Department of Physics in collaboration with IQAC)

[Joint Conveners : Dr. Satyaki Kar, Dr. Sukhamoy Bhattacharyya]



This is to certify that Mr. SOURAV DAS *of*
Aghore kamini prakash chandra Mahavidyalaya *participated in the national webinar on*
“Specialized Topics in Physics” organized jointly by Aghore Kamini Prakash
Chandra Mahavidyalaya and Acharya Prafulla Chandra College.

Dr. Paramartha Ghosh
Principal, AKPC Mahavidyalaya.

Dr. Saktibrata Bhowmik
Principal, APC college.

AGHOREKAMINI PRAKASHCHANDRA MAHAVIDYALAYA



(ESTD.-1959)

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Email: akpc_m@yahoo.co.in / info@akpcmahavidyalaya.org

Website: www.akpcmahavidyalaya.org

Ref. No.

Date...03/08/2020.

Notice

It is notified for the information of all concerned that a **One Day Webinar on “Strategies of Survival : An Overview of Healthcare During Present Pandemic Situation ”** is going to be organised jointly by the Women’s Cell and IQAC of the college on 11/08/20 at 11.00 a.m. Link of the Webinar will be given on 11/08/2020 to the College WhatsApp Group.

Platform: Google Meet.

All teachers, non-teaching staff and students of the college are requested to cooperate with the Women’s Cell & IQAC for the successful completion of the desired programme.

Dr. Paramartha Ghosh




Principal
A.K.P.C. Mahavidyalaya
P.O.- Bengai, Dt. Hooghly

Event Report on the One Day Webinar on Strategies of Survival: An Overview of Healthcare During Present Pandemic Situation.

Department:	The Women's Cell & IQAC (Internal Quality Assurance Cell), AKPC Mahavidyalaya.
Date of Event:	11/08/2020
Topic:	Strategies of Survival
Event Category:	Webinar
Level International/National/State/College(Local)	Local Level
No. of Participants:	Student:84
Resource person/ Judge/Guest (With designation)	1. Dr. Paramartha Ghosh , Principal , AKPC Mahavidyalaya , Bengai Hooghly' 2. Dr. Pushkar Dey, Kamarpukur, Hooghly
Brief Report: The Women's Cell & IQAC of our college, organised a Webinar on "Strategies of Survival: an overview of healthcare during present pandemic situation " on 11/08/2020. This was intended to generate awareness about healthcare .Dr. Paramartha Ghosh, Principal, AKPC Mahavidyalaya, Bengai, Hooghly, Dr. Pushkar Dey, BHMS, Kamarpukur, Hooghly, delivered their valuable talks on different aspects of the topic. 84 students benefited from this deliberation. This programme was much helpful for all participants.	




Principal

AGHOREKAMINI PRAKASHCHANDRA MAHAVIDYALAYA

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TD.: 03211☎: 246 235 / 246 772, Fax:913211 246 772,

Email:akpc_m@yahoo.co.in Website:www.akpcmahavidyalaya.org



Strategies of survival: an overview of healthcare during present pandemic situation dated on 11/8/2020

SL.NO	Name	Participant
1.	BAPAN HEMRAM	2 nd Semester
2.	ARPAN LOHAR	2 nd Semester
3.	SUSHOVAN DHARA	2 nd Semester
4.	ANIMESGH CHANGDER	2 nd Semester
5.	PAYEL BEJ	2 nd Semester
6.	PUJA GHOSH	2 nd Semester
7.	SATHI SANTRA	2 nd Semester
8.	RAJESH HEMBRAM	2 nd Semester
9.	MRITTIKA PAINE	2 nd Semester
10.	BISHAKHA ROY	2 nd Semester
11.	PRERONA PATRA	2 nd Semester
12.	MINAKSHI GORAI	2 nd Semester
13.	SHUBHENDU SANTRA	2 nd Semester
14.	BARNALI MAJHI	2 nd Semester
15.	JAHANARA KHATUN	2 nd Semester
16.	JHUMA HEMRAM	2 nd Semester
17.	SUDIP GHOSH	2 nd Semester
18.	ASIM ROY	2 nd Semester
19.	NEHA GHOSH	2 nd Semester
20.	PAYEL ROY	2 nd Semester
21.	SOUVIK MONDAL	2 nd Semester
22.	PUTUL MONDAL	2 nd Semester
23.	MOUMITA RAJAK	2 nd Semester
24.	SOMNATH ROY	2 nd Semester
25.	JYOTI ROY	2 nd Semester
26.	SRABANI RUIDAS	2 nd Semester
27.	PRIYANKA DHARA	2 nd Semester
28.	MALAY GHOSH	2 nd Semester
29.	PALLABI SANTRA	2 nd Semester
30.	SUDIP BARAI	2 nd Semester
31.	PABITRA PAL	2 nd Semester
32.	NAJMA KHATUN	2 nd Semester
33.	SAYAN PANDIT	2 nd Semester
34.	NARGIS PARVINA	2 nd Semester
35.	RAJKUMAR SANTRA	2 nd Semester
36.	SUBAN HAZRA	2 nd Semester
37.	PUJA PAL	2 nd Semester
38.	RUMA PRATI HAR	2 nd Semester
39.	SOURAV GHOSH.	2 nd Semester




Principal
A.K.P.C. Mahavidyalaya
P.O.- Bengal, Dt. Hooghly

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Email:akpc_m@yahoo.co.in Website:www.akpcmahavidyalaya.org



40.	AMIT BAG	2 nd Semester
41.	SUBRATA PAL	2 nd Semester
42.	RESHMA KHATUN	2 nd Semester
43.	ANINDITA DAS	4 th Semester
44.	AMIT DIGAR	4 th Semester
45.	AHAMMAD ULLA KHAN	4 th Semester
46.	FARHANA KHATUN	4 th Semester
47.	MANAS KUMAR ROY	4 th Semester
48.	PAPIYA DAS	4 th Semester
49.	TUSHAR SUBHRA ARI	4 th Semester
50.	MADHUMITA MADDUNEY	4 th Semester
51.	BRISTI KUNDU	4 th Semester
52.	PAYEL SAMUI	4 th Semester
53.	SHRABANTI CHATTERJEE.	4 th Semester
54.	AYANIKA DEY	4 th Semester
55.	SANJAY KARMAKAR	4 th Semester
56.	SOVAN MUKHERJEE	4 th Semester
57.	SAYANTAN PANJA	4 th Semester
58.	BUDDHADEV GORAI	4 th Semester
59.	PAMPA DE	4 th Semester
60.	ARITRA LIKEL	4 th Semester
61.	SUMAN KARMAKAR	4 th Semester
62.	JAYANTI PALADHI	4 th Semester
63.	ANINDITA DAS	4 th Semester
64.	ANKITA CHATTERJEE.	6 th Semester
65.	RIMA DAWN	6 th Semester
66.	PRIYA KAR	6 th Semester
67.	ANANYA GHOSH	6 th Semester
68.	TARASANKAR HEMRAM	6 th Semester
69.	MOUMITA MULA	6 th Semester
70.	ASLAM MOLLA	6 th Semester
71.	ANANYA KARAK	6 th Semester
72.	SAHITYA PATRA	6 th Semester
73.	ANWASHA NANDI	6 th Semester
74.	RITUPARNA MAUR	6 th Semester
75.	SUDIPTA DAS	6 th Semester
76.	KALYAN PANJA	6 th Semester
77.	HIMADRI BISWAS	6 th Semester
78.	SHREYA DE	6 th Semester
79.	LAGNASHREE NANDI	6 th Semester
80.	DIBYENDU DEY	6 th Semester
81.	SAIKAT HAZRA	6 th Semester
82.	SUMANA DE	6 th Semester
83.	SUNANDITA BISWAS	6 th Semester
84.	ATANU ROY	6 th Semester




Principal
A.K.P.C. Mahavidyalaya
P.O.- Bengal, Dt. Hooghly

A Two Day
NATIONAL WEBINAR

on

**Strategies of Survival: An Overview of
Healthcare during Present Pandemic Situation**



Organized by

Aghorekamini Prakashchandra Mahavidyalaya

(Sexual Harassment Cell and Women's Cell in collaboration with IQAC)



Date: 11th and 12th August, 2020

Online Platform: Google Meet 

Date and Time		Speakers	Topic
11th August, 2020	4 PM - 5 PM	 <p>Dr. Shyam Sundar Adhikary <i>MBBS, MD. (Radiotherapy)</i> <i>Consultant Clinical Oncologist</i> <i>Assistant Professor, Bankura Sammilani Medical College</i></p>	Impact of COVID-19 pandemic on cancer care and individual precautions of vulnerable population
	5 PM - 6 PM	<p>Dr. Sankar Kumar Nath <i>MBBS, DMRT (Oncology)</i> <i>Consultant Clinical Oncologist</i> <i>Ex-senior Oncologist, Calcutta Medical College, Bankura Sammilani Medical College and R. G. Kar Medical College</i></p> 	How To Prevent Cancers Of Breast, Cervix, Oral Cavity And Lung
12th August, 2020	4 PM - 4.45 PM	 <p>Dr. Santanu Bar <i>MBBS (Cal.), MS (G & O)</i> <i>RMO cum Clinical Tutor</i></p>	Lifestyle Modification – To overcome Gynecological Problem in Adolescent and Reproductive Period in Present Pandemic Situation
	4.45 PM - 5.30 PM	<p>Dr. Swagata Nandi Dasgupta <i>Ph.D (Psychology)</i> <i>School Counselor and Practising Psychologist</i> <i>Senior Counselor in Vasant Vihar High School, Thane, Maharashtra</i></p> 	Taking Care of Mental Health during the pandemic
	5.30 PM - 6.15 PM	 <p>Dr. Biman Mitra <i>MBBS (Cal.), DGO (Cal.)</i> <i>Consultant Gynaecologist and Obstetrician</i> <i>Previously attached with NRS, PG (Kolkata) and King George Hospital (London)</i></p>	Adolescent Health and Hygiene

Patron: **Dr. Paramartha Ghosh**, Principal & Secretary, AKPC Mahavidyalaya

- **Register for free at:** <https://forms.gle/wejZzbifZGfGhR1X8>  **Click here**
- **E-certificates will be issued to the registered participants.**
- **For further queries, contact:**
 - **Dr. Shampa Mondal (Asst. Prof., Dept. of Physics, AKPC Mahavidyalaya)**
Ph. : +91 94348 34090
Email: shampa.rcd@gmail.com
 - **Smt. Sarmistha Adhikary (Librarian, AKPC Mahavidyalaya)**
Ph. : +91 98318 76876
Email: adhikarysarmistha17@gmail.com
 - **Dr. Satyaki Kar (Asst. Prof., Dept. of Physics, AKPC Mahavidyalaya)**
Ph. : +91 75480 97562
Email: satyaki.phys@gmail.com
 - **Dr. Sourav Haldar (Asst. Prof., Dept. of Mathematics, AKPC Mahavidyalaya)**
Ph. : +91 91233 74492
Email: sourav.math.ju@gmail.com

AGHOREKAMINI PRAKASHCHANDRA MAHAVIDYALAYA



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Email: akpc_m@yahoo.co.in / info@akpcmahavidyalaya.org

Website: www.akpcmahavidyalaya.org

Ref. No.

Date...18/09/2020.

Notice

It is notified for the information of all concerned that a **Two Day International Webinar on "Environment, Nutrition and Disease Management"** is going to be organised jointly by the Department of Nutrition and IQAC of the college on 26/09/20 at 11.00 a.m. Link of the Webinar will be given on 26/09/2020 to the College WhatsApp Group.

Platform: Google Meet.

All teachers, non-teaching staff and students of the college are requested to cooperate with the Department of Nutrition & IQAC for the successful completion of the desired programme.

Dr. Paramartha Ghosh



Principal
A.K.P.C. Mahavidyalaya
P.O.- Bengai, Dt. Hooghly

Event Report on an International Webinar on Environment, Nutrition and Disease Management.

Department:	The Dept. of Nutrition & IQAC (Internal Quality Assurance Cell), AKPC Mahavidyalaya
Date of Event:	26.09.20 -27.09.20
Topic:	Environment , Nutrition and Disease Management
Event Category:	Webinar
Level International/National/State/College(Local)	International
No. of Participants:	Students:25 Staff: 05
Resource person/ Judge/Guest (With designation)	<ol style="list-style-type: none"> 1. Prof. Dedidas Ghosh, Professor & HOD, Dept. of Biomedical Laboratory, Science & Management with Clinical Nutrition, Vidyasagar University, West Bengal. 2. Dr. Prabal Kumar Chakraborty, Ex – Clinical Coordinator, The Michener Institute of Applied Health Science , Toronto, Canada. 3. Prof. Aniruddha Mukhopadhyay, Professor & HOD, Dept. of Environmental Science, Calcutta University, West Bengal.
Brief Report: The Dept. of Nutrition & IQAC of our college, organised a two day International webinar on “Environment , Nutrition and Disease Management” from 26/09/2020 to 27/09/20. This was intended to generate awareness about the Environment, Nutrition and Disease Management . Prof. Dedidas Ghosh, Professor & HOD, Dept. of Biomedical Laboratory, Science & Management with Clinical Nutrition, Vidyasagar University, West Bengal, Dr. Prabal Kumar Chakraborty, Ex – Clinical Coordinator, The Michener Institute of Applied Health Science , Toronto, Canada, Prof. Aniruddha Mukhopadhyay, Professor & HOD, Dept. of Environmental Science, Calcutta University, West Bengal delivered their valuable talks on different aspects of the webinar ,enriching the students and staff.	



[Signature]
Principal

AGHOREKAMINI PRAKASHCHANDRA MAHAVIDYALAYA

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Email: akpc_m@yahoo.co.in Website: www.akpcmahavidyalaya.org



Environment, Nutrition and Diseases management Dated on 26/9/2020

SL. NO	Name	Participant
1.	KALYAN PANJA	Student
2.	HIMADRI BISWAS	Student
3.	SHREYA DE	Student
4.	LAGNASHREE NANDI	Student
5.	DIBYENDU DEY	Student
6.	SAIKAT HAZRA	Student
7.	SUMANA DE	Student
8.	SUNANDITA BISWAS	Student
9.	ATANU ROY	Student
10.	SHREYA MALAS	Student
11.	RIMA KARMAKAR	Student
12.	SATHI KUNDU	Student
13.	BARSHA SADHUKHAN	Student
14.	SHILPA RAY	Student
15.	SUDIPA SINGHA	Student
16.	ANUSHRI KUNDU	Student
17.	MOUMITA PATRA	Student
18.	MANOJIT LAU	Student
19.	SUMANA NEMO	Student
20.	KARTIK DEY	Student
21.	SOUMYA MAJUMDAR	Student
22.	AMITA SANTRA	Student
23.	BIPA KHATUN	Student
24.	AMBIKA PAKRE	Student
25.	PIYALI BAG	Student
26.	Soma Ghosh	Staff
27.	DEBKUMAR KUNDU	Staff
28.	FALGUNI BEZ	Staff
29.	SUGATA SENSARMA	Staff
30.	KOUSHIK KONER	Staff

Principal




Principal
A.K.P.C. Mahavidyalaya
P.O.- Bengal, Dt. Hooghly



TWO-DAY INTERNATIONAL WEBINAR
ON
ENVIRONMENT, NUTRITION AND DISEASE MANAGEMENT
SEPTEMBER 26 & 27, 2020
ORGANISED BY :
DEPARTMENT OF NUTRITION
A.K.P.C. MAHAVIDYALAYA, BENGAI, HOOGHLY





TWO-DAY INTERNATIONAL WEBINAR

ON

ENVIRONMENT, NUTRITION AND DISEASE MANAGEMENT

SEPTEMBER 26, 2020-SEPTEMBER 27, 2020

ORGANISED BY :

DEPARTMENT OF NUTRITION

A.K.P.C. MAHAVIDYALAYA, BENGAL, HOOGHLY



ORGANISING COMMITTEE:

PATRON :
DR. PARAMARTHA GHOSH
PRINCIPAL
A.K.P.C. MAHAVIDYALAYA
BENGAL, HOOGHLY



ORGANISING SECRETARY :
DR. RAKTIMA BANDYOPADHYAY
JT. CONVENERS : ANUSHREE RANA & SANJUKTA KARAN

INVITED SPEAKERS :



PROF. DEBIDAS GHOSH
PROFESSOR AND HoD, DEPT. OF
BIOMEDICAL LABORATORY SCIENCE
& MANAGEMENT WITH CLINICAL
NUTRITION, VIDYASAGAR
UNIVERSITY, WEST BENGAL



**DR. PRABAL KUMAR
CHAKRABORTY**
EX-CLINICAL COORDINATOR ,
THE MICHENER INSTITUTE OF
APPLIED HEALTH SCIENCES ,
TORONTO, CANADA



**PROF. ANIRUDDHA
MUKHOPADHYAY**
PROFESSOR AND HoD, DEPT.
OF ENVIRONMENTAL SCIENCE,
CALCUTTA UNIVERSITY, WEST
BENGAL

JOINING PLATFORM : GOOGLE MEET
Registration link:
<https://forms.gle/KRxoFZqf4QG82AMNA>



TWO-DAY INTERNATIONAL WEBINAR
ON
ENVIRONMENT, NUTRITION AND DISEASE MANAGEMENT
SEPTEMBER 27, 2020
ORGANISED BY :
DEPARTMENT OF NUTRITION
A.K.P.C. MAHAVIDYALAYA, BENGAI, HOOGHLY



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INVITED SPEAKERS



PROF. SALIL K. DAS
PROFESSOR OF BIOCHEMISTRY
SCHOOL OF MEDICINE
MEHARRY MEDICAL COLLEGE
TENNESSEE 37208
USA



DR. SHYAMALI MUKHERJEE
ASSOCIATE PROFESSOR
SCHOOL OF MEDICINE
MEHARRY MEDICAL COLLEGE
TENNESSEE 37208
USA

**TECHNICAL
AND
POSTER
SESSION
&
VOTE OF
THANKS**

JOINING PLATFORM : GOOGLE MEET
Registration link:
<https://forms.gle/KRxoFZqf4QG82AMNA>

PROGRAM SCHEDULE : SEPTEMBER 26, 2020

9:00 am– INAUGURAL SESSION & WELCOME ADDRESS BY DR. PARAMARTHA GHOSH, PRINCIPAL, AKPC MAHAVIDYALAYA

9.30 am– PROF. DEBIDAS GHOSH, PROFESSOR AND HOD, DEPT. OF BIOMEDICAL LABORATORY SCIENCE & MANAGEMENT WITH CLINICAL NUTRITION, VIDYASAGAR UNIVERSITY, WEST BENGAL

TOPIC : IMMUNOBOOSTING NUTRIENTS AND HERD IMMUNITY: DUAL SWORD OF COVID19

10.30 am – DR. PRABAL KUMAR CHAKRABORTY, EX-CLINICAL COORDINATOR, THE MICHENER INSTITUTE OF APPLIED HEALTH SCIENCES, TORONTO, CANADA

TOPIC: APPLICATION OF ULTRASOUND IN DAY TO DAY PRACTICE

11:30 am- PROF. ANIRUDDHA MUKHOPADHYAY, PROFESSOR AND HOD, DEPT. OF ENVIRONMENTAL SCIENCE, CALCUTTA UNIVERSITY, WEST BENGAL

TOPIC: EMERGING CHALLENGES IN ENVIRONMENT : THINK GLOBALLY ACT LOCALLY

PROGRAM SCHEDULE : SEPTEMBER 27, 2020

9:00 am– INAUGURAL SESSION & WELCOME ADDRESS BY DR. PARAMARTHA GHOSH, PRINCIPAL, AKPC MAHAVIDYALAYA

9.30 am -PROF. SALIL K. DAS, PROFESSOR, SCHOOL OF MEDICINE, MEHARRY MEDICAL COLLEGE, TENNESSEE 37208, USA

Topic: POTENTIAL ROLE ON DIETARY SOY PROTEIN IN THE CONTROL OF BREAST CANCER

10.30 am -DR. SHYAMALI MUKHERJEE, ASSOCIATE PROFESSOR, SCHOOL OF MEDICINE MEHARRY MEDICAL COLLEGE, TENNESSEE 37208, USA

Topic : CIGARETTE SMOKING AND VITAMINS

11.30 am- TECHNICAL AND POSTER SESSION

12.30 pm- VOTE OF THANKS

AGHOREKAMINI PRAKASHCHANDRA MAHAVIDYALAYA



(ESTD.-1959)

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SUBHASNAGAR ☆ P.O.- BENGAI ☆ P.S. – GOGHAT ☆ DIST.- HOOGHLY

PIN CODE-712 611 (W.B.)

STD.: 03211 ☎: 246 235 / 246 772, Fax: 913211 246 772,

Email: akpc_m@yahoo.co.in / info@akpcmahavidyalaya.org

Website: www.akpcmahavidyalaya.org

Ref. No.

Date...07/06/2021

Notice

It is notified for the information of all concerned that an International Webinar on “**Rendezvous with Quantum Physics**” is going to be organised jointly by the Department of Physics and IQAC of the college from 12/06/2021 to 13/06/2021 at 11.00 a.m. through Google Meet. Link of the Webinar will be provided to the college WhatsApp Group on 12/06/2021.

Platform: Google Meet

All teachers, non-teaching staff and students of the college are requested to cooperate with the Department of Physics for the successful completion of the desired programme.



Dr. Paramartha Ghosh


Principal
A.K.P.C. Mahavidyalaya
P.O.- Bengai, Dt. Hooghly

Event Report on the International Webinar on “Rendezvous with Quantum Physics”.

Department:	The Department of Physics & IQAC (Internal Quality Assurance Cell), AKPC Mahavidyalaya.
Date of Event:	12/06/2021- 13/06/21
Topic:	Rendezvous with Quantum Physics
Event Category:	Webinar
Level International/National/State/College(Local)	International Level
No. of Participants:	Student :42
Resource person/ Judge/Guest (With designation)	<ol style="list-style-type: none">1. Dr. Paramartha Ghosh , Principal , AKPC Mahavidyalaya , Bengai Hooghly’2. Dr, Soham Ghosh, Postdoctoral Fellow, Lawrence Berkeley National Laboratory, USA.3. Dr. Arijit Saha, Reader, Institute of Physics, Bhubaneswar, India.4. Dr. Ananda Dasgupta, Professor, IISER, Kolkata, India.5. Dr. Somenath Jalal, Asst. Professor, Netaji Mahavidyalaya, Hooghly, India.6. Dr. Papiya Dhara, Asst. Professor, Adamas University, Kolkata.7. Dr. Satyaki Kar, Convenor, Asst. Professor, AKPC Mahavidyalaya, Bengai, Hooghly, India.
Brief Report:	The Dept. of Physics & IQAC of our college, organised a two day international Webinar on “Rendezvous with Quantum Physics” on 12/06/2021 and 13/06/2021. Dr. Paramartha Ghosh, Principal, AKPC Mahavidyalaya, Bengai, Hooghly, Dr, Soham Ghosh, Postdoctoral Fellow, Lawrence Berkeley National Laboratory, USA. Dr. Arijit Saha, Reader, Institute of Physics, Bhubaneswar, India. Dr. Ananda Dasgupta, Professor, IISER, Kolkata, India. Dr. Somenath Jalal, Asst. Professor, Netaji Mahavidyalaya, Hooghly, India, Dr. Papiya Dhara, Asst. Professor, Adamas University, Kolkata, India, delivered their valuable talks on quantum physics , enriching the participants. 42 students benefited from this deliberation. This programme was much helpful for our students.



Pama
Principal

AGHOREKAMINI PRAKASHCHANDRA MAHAVIDYALAYA

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Email:akpc_m@yahoo.co.in Website:www.akpcmahavidyalaya.org



Rendezvous with Quantum physics dated on 12/06/21

SL. NO	Name	Participant
1.	ANKITA CHATTERJEE.	6 th Semester
2.	RIMA DAWN	6 th Semester
3.	PRIYA KAR	6 th Semester
4.	ANANYA GHOSH	6 th Semester
5.	TARASANKAR HEMRAM	6 th Semester
6.	MOUMITA MULA	6 th Semester
7.	ASLAM MOLLA	6 th Semester
8.	ANANYA KARAK	6 th Semester
9.	SAHITYA PATRA	6 th Semester
10.	ANWASHA NANDI	6 th Semester
11.	RITUPARNA MAUR	6 th Semester
12.	SUDIPTA DAS	6 th Semester
13.	KALYAN PANJA	6 th Semester
14.	HIMADRI BISWAS	6 th Semester
15.	SHREYA DE	6 th Semester
16.	LAGNASHREE NANDI	6 th Semester
17.	DIBYENDU DEY	6 th Semester
18.	SAIKAT HAZRA	6 th Semester
19.	SUMANA DE	6 th Semester
20.	SUNANDITA BISWAS	6 th Semester
21.	PAYEL SAMUI	4 th Semester
22.	SHRABANTI CHATTERJEE.	4 th Semester
23.	AYANIKA DEY	4 th Semester
24.	SANJAY KARMAKAR	4 th Semester
25.	SOVAN MUKHERJEE	4 th Semester
26.	SAYANTAN PANJA	4 th Semester
27.	BUDDHADEV GORAI	4 th Semester
28.	PAMPA DE	4 th Semester
29.	ARITRA LIKEL	4 th Semester
30.	SUMAN KARMAKAR	4 th Semester
31.	JAYANTI PALADHI	4 th Semester
32.	AMIT PAL	2nd Semester
33.	SUMITA PANDIT	2nd Semester




Principal
A.K.P.C. Mahavidyalaya
P.O.- Bengal, Dt. Hooghly

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34.	GIRIRAJ DE	2nd Semester
35.	SAIKAT BHUNIA	2nd Semester
36.	ASHRAFUL CHOWDHURI	2nd Semester
37.	SOHAM GANGULY	2nd Semester
38.	AVIJIT ROY	2nd Semester
39.	PURNENDU ROY	2nd Semester
40.	RAJKUMAR KHAN	2nd Semester
41.	SUMAN MUKHERJEE	2nd Semester
42.	KUSHAL GHOSH	2nd Semester



Principal
A.K.P.C. Mahavidyalaya
P.O.- Bengai, Dt. Hooghly

Short Report
on
The International Seminar entitled “Tools in Sciences”
held at AKPC Mahavidyalaya on June 25th, 2022

The Department of Physics, Aghorekamini Prakashchandra Mahavidyalaya organized a 1-Day International seminar on “Tools in Sciences” on 25th June, 2022. It started at 11:00 AM and continued till 5:00 PM in which three keynote speakers and two contributory speakers were invited to present their works. The seminar was organized by Physics department in collaboration with Internal Quality Assurance Cell (IQAC) of the college. The funding for the same was received from DST-SERB under the scheme no. SRG/2019/002143.



Talk titles:

1. Monte Carlo methods in Statistical Mechanics.
2. Image Processing using Machine learning Algorithm.
3. Transparent Flexible Supercapacitor: Fabrication and Application.

3 Keynote Speeches



Dr. Vivekananda Roy¹
Iowa State University



Dr. Arpita Das²
University of Calcutta



Dr. Sukanta De³
Presidency University

2 Contributory Speeches



Talk on Scilab Programming by
Dr. Somenath Jalal,
Netaji Mahavidyalaya



Talk on Optical Fiber Sensors by
Dr. Papiya Dhara,
Adamas University

Poster Sessions

Relevant Science Posters by a few participants.

Organizing Committee

Patron: Dr. Paramartha Ghosh

Convener: Dr. Satyaki Kar

Coordinators: Mr. Rajib K. Mandal, Dr. Shampa Mondal, Mr. Surajit Guin.

* Seminar funded by DST-SERB under scheme no. SRG/2019/002143.

Chronology of Events:

Welcoming the speakers:

At 11:00 AM the programme started with seminar convener Dr. Satyaki Kar inviting the principal and the speakers to the stage to grace the occasion. All the dignitaries are then greeted with bouquets by the Physics Hons. students. Then the honourable principal formally started the event with his welcome address.



Technical Morning Session:

The technical session started after the welcome address by the principal was over. In the morning session there were two keynote speeches scheduled to follow.

i > Keynote Speech by Dr. Vivekananda Roy

Dr. Vivekananda Roy, an Associate Professor from Department of Statistics at Iowa State University, USA was gracious enough to find some time from his academic visit to India to visit AKPC Mahavidyalaya and deliver a keynote speech in the seminar.

The title of his talk was **Monte Carlo Methods in Statistical Mechanics.**

The abstract of his talk is given below.

Abstract: We begin with discussing the need of Monte Carlo methods for tackling some statistical mechanical problems for which analytical solutions are not available. This is followed by descriptions of different Monte Carlo methods, namely, the classical Monte Carlo, the Markov chain Monte Carlo and the importance sampling methods. Some of these methods, originally developed in the context of statistical mechanical problems, are now widely used in diverse disciplines including statistics, machine learning etc. We plan to discuss some of these applications.



ii > Keynote Speech by Dr. Sukanta De

Next keynote speech was given by Dr. Sukanta De, an Assistant Professor from the Department of Physics at Presidency University, Kolkata.

The title of his talk was **Transparent Flexible Supercapacitors: Construction and Applications.**

The abstract of his talk is given below.

Abstract: Recent significant breakthroughs in modern wearable electronics and ever growing demand of portable flexible electronic devices, such as e-papers, bendable smart phones, displays, and transplantable medical devices, has greatly promoted the development of flexible, low-cost, and high performance energy storage systems. One of the greatest scientific and engineering challenges in the twenty first century is to develop such flexible energy storage devices. Among different energy storage devices, supercapacitors (SCs) are the ultimate choice because of their higher power density, cycle efficiency and charging discharging rates more than batteries. Electrode materials in SCs play a crucial role in its performance. This talk will focus largely on construction of Flexible Transparent Super capacitors, starting from the choice of electrode materials and their several applications.



Lunch Break and Poster Session:

The seminar had a lunch break between 1:00PM - 2:30 PM. During the same interval there was also a poster session where 10 participants presented their posters.



Poster Titles :

1. Optical properties and electric modulus spectroscopy of nanocrystalline Mn-doped CeO₂ . (Dr. Arup Dhara, Burdwan Raj College).
2. Transparent Conductive Oxide Thin Films. (Mr. Basudeb Roy Chaudhury, Bijoy Krishna Girls' College).
3. Near duplicate image detection using Locality Sensitive Hashing. (Mr. A F M Shamsuzzaman, Raja Rammohun Roy Mahavidyalaya).
4. Charge transfer processes in ion-ion/ atom collisions at intermediate and high energies. (Dr Rakesh Samanta, Raja Rammohun Roy Mahavidyalaya).
5. Understanding the role of natural death in evolutionary dynamics: A combination of stability analysis and Monte Carlo study. (Dr. Sirshendu Bhattacharyya, Raja Rammohun Roy Mahavidyalaya).
6. Piezo Electric Transducer -a Tool for The Generation of Ultrasonic Waves.(Dr. Uday Khan, Rabindra Mahavidyalaya)
7. A Study on the Synthesis of Coumarins Using Ionic Liquid. (Dr. Tarun Ghosh, AKPC Mahavidyalaya).
8. Electrical Properties of TiO₂-CeO₂ nanocomposite material by mechanical alloying method. (Mr. Rajib K. Mandal, AKPC Mahavidyalaya).
9. Influences of Semiconductor Metal-oxide properties on Gas sensing characteristics. (Dr. Shampa Mondal, AKPC Mahavidyalaya).
10. Chiral anomaly dependent magnetoconductances in an irradiated Type-I Weyl Semimetal. (Mr. Rounak Sen, Research scholar, AKPC Mahavidyalaya).

Technical Post-lunch Session:

iii > Keynote Speech by Dr. Arpita Das

The first talk in the post lunch session was given by the keynote speaker Dr. Arpita Das, an Assistant Professor from the Department of Radiophysics and Electronics, University of Calcutta. The title of the talk was **Image Processing using Machine Learning Algorithms**.

The abstract of her talk is given below.

Abstract: For increasing amount of data from different optical/infrared sources such as cameras, webcams, radar sensors, satellites, diagnostic imaging etc., a substantial number of images or videos of different nature can be used for different applications. For instance, the problem of high-performance target recognition, anomaly detection, computer assisted diagnosis/surgery etc. plays an important role in both military and civil domain. In the military field, image processing can be used for intelligence interpretation, target detection and battlefield surveillance. In the civil field, image processing can be used for face/figure print recognition, driver assistance systems, geological survey, medical diagnosis etc. However, it is still challenging to achieve high performance in image classification, automated target detection, pattern recognition, video tracking, etc. because of the complex scenarios of the real world applications (e.g., noise, poor visibility, occlusion, deformation, etc.). Recently, the advances in machine learning and computer vision algorithms show potential contributions in various practical applications. Deep neural network and other machine learning methodologies are commonly used in image and video processing, including segmentation, classification, recognition, etc.



iv > Contributory Speech by Dr. Somenath Jalal

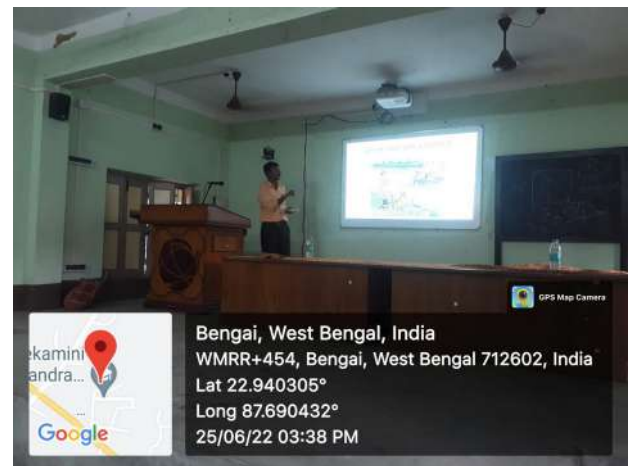
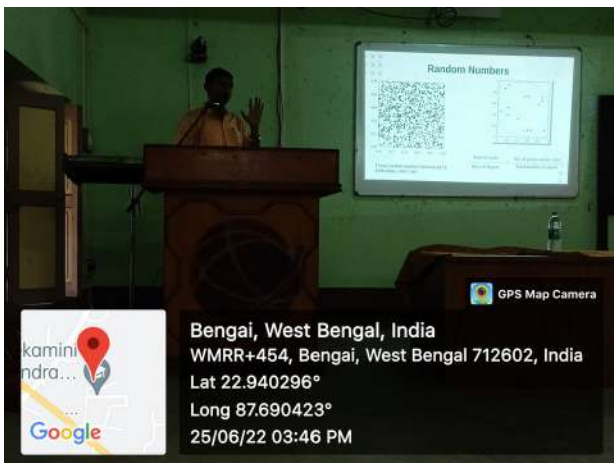
Thereafter, Dr. Somenath Jalal, as Assistant Professor in Physics from Netaji Mahavidyalaya, Hooghly presented a contributory lecture.

The title of his talk was **Understanding Physics problems numerically and solving them using SCILAB, a free Software**.

The abstract of his talk is given below.

Abstract: In the B.Sc Physics undergraduate curriculum, UGC has prescribed a Choices Based Credit System syllabus. Freshness of the syllabus is effective and encouraging to both teachers as well as students. A student has no choice but to learn computation tools in more than six courses namely Mathematical Physics I, II, III, Advanced mathematical Physics, Quantum Mechanics, Statistical Mechanics, Applied Dynamics, from Semester I to Semester VI in their undergrad studies. He/She has to learn the programming language C/C++ and/or use software like SCILAB. In this talk we shall discuss the formulation of Physics problems numerically and try to solve them using SCILAB. If time permits, we shall learn XCOS, a

graphical interface built within SCILAB to emulate some Physics experiments.



v > Contributory Speech by Dr. Papiya Dhara

The last talk of the day was delivered by the contributory speaker Dr. Papiya Dhara, an Assistant Professor of Physics from Adamas University, Kolkata.

The title of her talk was **Emerging Trends and Applications of Optical fiber sensors.**

The abstract of the talk is given below.

Abstract: The growth of the optoelectronics and fiber optic communications industries has revolutionized over the past years. The optoelectronics industry has brought about such products as compact disc players, laser printers, bar code scanners and laser pointers. The fiber optic communication industry has literally revolutionized the telecommunication industry by providing higher performance, more reliable telecommunication links with ever decreasing bandwidth cost. In parallel with these developments fiber optic sensor technology has been a major user of technology associated with the optoelectronic and fiber optic communication industry. Different types of extrinsic and intrinsic fiber sensor use an optical fiber to carry the light beam and the environmental effect impresses information. High performance interferometric fiber optic sensors using Mach-Zehnder and Michelson interferometers etc will be discussed. Photonic crystal fiber based liquid level sensor, Fiber Bragg's Grating sensor, Surface plasmon based Optical fiber bio-sensor will be enlightened. Overwhelming commercial market, real time applications, job opportunity with optical fiber sensor domain expertise will be unfolded.



The participations:

There were 54 students and 12 faculty participants registered for the seminar while a total of 50 registered participants actually attended the event. In addition, there were many unregistered, local participants from the college, both student and faculties who also actively participated in the seminar.



Acknowledgements:

There were many agencies/ personalities without whose help the seminar could not have happened. At the foremost, acknowledgement should go to DST-SERB for fully funding this event under its Start-up Research Grant Scheme no. SRG/2019/002143. The acknowledgement goes to the college and the college Principal Dr. Paramartha Ghosh for his coopeartion and good wishes. Thanks should be given to the college's Internal Quality Assurance Cell (IQAC) and especially its convenor Dr. Ashis Kar for his through guidance for smooth functioning of the programme. Organizing the event became easier due to the active roles played by the seminar committee comprising of the Coordinators Dr. Shampa Mondal, Dr. Rajib Kumar Mandal and Mr. Surajit Guin and departmental Lab attendant Mr. Ambica Charan Das and Md. Ibrahim Hossain. This committee was grateful to college's Teacher Council Secretary, Mr. Prasenjit Bera for his valuable guidance in organizing this event. Thanks to all the five speakers who were gracious enough to attend the event as resource persons. Whole hearted thanks to the volunteers of this event – Dr. Sourav Halder from the Mathematics Department, Physics Hons. Students, especially 3rd and 1st year students and the J.R.F. Mr. Rounak Sen. Finally, thanks to all the participants without whose active participation the program would not succeed at all.



Dr. Paramartha Ghosh.
Principal, AKPC Mahavidyalaya.
Bengai, Hooghly, W.B. 712611.



Dr. Satyaki Kar.
Seminar Convener &
HOD, Physics Department.

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Ref. No.

Date.....

Summary Report on International Webinar on Rendezvous with Quantum Physics (Sponsored by Physics Department, AKPC Mahavidyalaya in collaboration with IQAC) Webinar Poster

INTERNATIONAL WEBINAR ON RENDEZVOUS WITH QUANTUM PHYSICS
ORGANIZED BY
A.K.P.C. Mahavidyalaya
(DEPARTMENT OF PHYSICS IN COLLABORATION WITH IQAC)
TIME: 10.00-13.00 IST 12-13 JUNE, 2021
Register online at <https://forms.gle/WQPXYq1UKDeagATx8> (seats limited)

DAY-1: 12th June

KEYNOTE SPEAKER-1, Time: 10:20 am to 11:00 am, IST.
Dr. Soham Ghosh, Postdoctoral Fellow, Lawrence Berkeley National Laboratory, USA.
Topic: Stability and electronic structure of oxide surfaces and interfaces.

KEYNOTE SPEAKER-2, Time: 11:15 am to 11:55 am, IST.
Dr. Arijit Saha, Reader, Institute of Physics, Bhubaneswar, India.
Topic: Topological Insulators and Topological Superconductors: a new Paradigm of modern Condensed Matter Physics.

Short Presentation-1, Time: 12:10 pm to 12:20 pm, IST.
Mr. Anupam Saha, J.R.F. under DST-SERB scheme, AKPCM.
Topic: Fermi level Fluctuation, Magnetization and Zeeman splitting during quantum oscillation in Nodal Line Semimetals.

Short Presentation-2, Time: 12:30 pm to 12:40 pm, IST.
Dr. Pampa Pal Goswami, Assistant Teacher & Student at Bijoy Krishna Girls' College, Howrah.
Topic: Preparation and characterization of magnetic Nanoparticles for industrial and medical applications.

DAY-2: 13th June

KEYNOTE SPEAKER-3, Time: 10:05 am to 10:45 am, IST.
Dr. Ananda Dasgupta, Professor, IISER Kolkata, India
Topic: Sherlock Holmes meets Schrodinger's Cat.

CONTRIBUTORY SPEAKER-1, Time: 11:00 am to 11:20 am, IST
Dr. Somenath Jalal, Asst. Prof, Netaji Mahavidyalaya, Hooghly, India
Topic: Duality between 2D Classical Ising model and 1D Quantum Ising model: Story of topological phase transition.

CONTRIBUTORY SPEAKER-2, Time: 11:30 am to 11:50 am, IST
Dr. Amit Dey, Asst. Prof, Ramananda College, Bankura, India
Topic: Cavity-QED based stimulated Raman adiabatic passage

Short Presentation-3, Time: 12:00 pm to 12:10 pm, IST.
Mr. Rajdip Banerjee, B.Sc.(H) Student, AKPCM.
Topic: Quantum Tunnelling - A World of possibilities.

Short Presentation-4, Time: 12:20 pm to 12:30 pm, IST.
Dr. Shampa Mondal, Asst. Prof., AKPCM.
Topic: Thin Film as Supercapacitor.

Online Platform: Google meet. E-Certificates to be provided to the attendees.

Organizing Committee

- ❖ **Chairperson:** Dr. Paramartha Ghosh, Principal, AKPCM.
- ❖ **Co-Chairperson:** Dr. Ashis Kar, IQAC coordinator, AKPCM.
- ❖ **Convener:** Dr. Satyaki Kar, Asst. Prof., Dept of Physics, AKPCM.
- ❖ **Secretary:** Mr. Rajib Kumar Mandal, Asst. Prof., Dept of Physics, AKPCM.
- ❖ **Joint Secretary:** Dr. Shampa Mondal, Asst. Prof., Dept of Physics, AKPCM.
- ❖ **Coordinators:** Mr. Surajit Guin, SACT, Dept of Physics, AKPCM. Mr. Ashis Mondal, SACT, Dept of Physics, AKPCM.
- ❖ **Technical Support:** Dr. Sourav Halder, Asst. Prof., Dept. of Mathematics, AKPCM.

For queries, contact Dr. Satyaki Kar at satyaki_kar@akpcmahavidyalaya.org or 7548097561, or Mr. Surajit Guin at surajit_guin@akpcmahavidyalaya.org or 9734707361.

The online International Webinar took place on June 12-13, 2021 starting with the Welcome address by the Principal Dr. Paramartha Ghosh. Thereafter the two day long event unfolded with three Keynote speeches (including international keynote speaker from LBN Laboratory, USA). Dr. Satyaki Kar of Physics Department convened the whole event. The title and the abstract of the lectures are given below.

Title & Abstract for Key note speech 1:

Oxide Surface and Interfaces: Electronic Structure and Stability

Simulation based on density functional theory is a powerful tool for studying ground state properties of a vast group of materials. Here, we explore the surface and interface properties of two metal oxide

systems - Sr₂ RuO₄ with embedded Ru metal, and SrTiO₃ . Sr₂ RuO₄ , an unconventional superconductor, forms a remarkable ordered interface with Ru metal, which leads to an increase in its superconducting critical temperature. Based on our study of stability and electronic properties of this interface, we provide an explanation for enhanced superconductivity. SrTiO₃ is a metal oxide well known for harboring a two-dimensional electron gas on its surface. In our work, we explore the role of oxygen vacancy and the nature of the surface states to find both metallicity and localized magnetism with a signature of strong spin-momentum correlation.

The studies were done in collaboration with E. Manousakis, Y. Xin and Z. Mao. The works were supported in part by the U.S. National High Magnetic Field Laboratory, which is partially funded by the NSF DMR-1157490 and the State of Florida.

Title & Abstract for Key note speech 2:

Topological Insulators and Topological Superconductors: a new Paradigm of modern Condensed Matter Physics

Topological insulators are new class of materials which are characterized by a bulk band gap like ordinary band insulators but have protected conducting states on their edges or surfaces. These states emerge due to the combination of spin-orbit coupling and time reversal symmetry. Also, these states are insensitive to scattering by non-magnetic impurities. A two-dimensional (2D) topological insulator has one-dimensional edge states in which the spin-momentum locking of the electrons give rise to quantum spin Hall effect. A three-dimensional (3D) topological insulator supports novel spin-polarized 2D Dirac fermions on its surface. These topological insulator materials have been theoretically predicted and experimentally observed in a variety of 2D and 3D systems, including HgTe quantum wells, and Bi₂Te₃, Bi₂Se₃ crystals. Moreover, proximity induced superconductivity in these systems can lead to a state that supports zero energy Majorana fermions, and the phase is known as topological superconductors. In my talk, I shall discuss the basic phenomenology of topological insulators and topological superconductors along with some of their experimental development and possible application. At the end of my talk, I shall briefly mention the basic picture of higher order topological insulators and higher order topological superconductors which are the very recent development in this field.

Title & Abstract for Key note speech 3:

Sherlock Holmes meets Schrodinger's Cat.

We will discuss why the advent of quantum computation poses a threat to the available classical modes of cryptography. We will then go on to see how it is quantum mechanics itself that gives us a way out by providing a foolproof secure mode of communication via quantum key distribution. We will illustrate the procedure by the means of a simple protocol for this - the BB92 protocol.

Title & Abstract for Contributory speech 1:

Understanding Physics problems numerically and solving them using SCILAB, a free Software

In the B.Sc Physics undergraduate curriculum, UGC has prescribed a Choices Based Credit System syllabus. Freshness of the syllabus is effective and encouraging to both teachers as well as students. A student has no choice but to learn computation tools in more than six courses namely Mathematical Physics I, II, III, Advanced mathematical Physics, Quantum Mechanics, Statistical Mechanics, Applied

Dynamics, from Semester I to Semester VI in their undergrad studies. He/She has to learn the programming language C/C++ and/or use software like SCILAB. In this talk we shall discuss the formulation of Physics problems numerically and try to solve them using SCILAB. If time permits, we shall learn XCOS, a graphical interface built within SCILAB to emulate some Physics experiments.

Title & Abstract for Contributory speech 2:

Cavity-QED-based stimulated Raman adiabatic passage

Stimulated Raman adiabatic passage (STIRAP) is an interesting technique and exploited in diverse applications such as atomic population transfer, quantum state preparation, state transfer in a quantum network etc. We explore STIRAP protocol in a cavity-QED platform, where light-matter coupling plays the pivotal role. During the course of the process, we observe an emergence of chaos and investigate its effects on the STIRAP efficiency. In the short talk I will delve into the connection between chaos and adiabaticity, and suggest strategy to maintain the success of the protocol.

Title & Abstract for Short Presentation 1:

Fermi level fluctuation, Magnetization and Zeeman splitting during quantum oscillation in Nodal Line Semimetals

Quantum oscillation measurements are crucial for nodal line semimetals in determining electronic Berry phases and thus topological nature of its magnetic oscillations. Here we study a continuum model of a nodal line semimetal under strong magnetic field and report the characteristics of the Landau level spectra and the fluctuations in the Fermi level as the field in a direction perpendicular to the nodal plane is varied through. From the obtained results on magnetization, we demonstrate the growth of quantum oscillation with field strength as well as its constancy in period when plotted against $1/B$. Furthermore we find that the density of states which show series of peaks in succession, witness bifurcation of such peaks due to Zeeman contributions. Those bifurcations, however, are discernible only if the electron/quasiparticle effective mass is considerably smaller than its free value, which usually happens in these systems. We find the Zeeman splitting which is well comparable to many low lying spectra, loses its importance as m^* is artificially tuned from its free to low values. However, experimental results indicate a manyfold increase in the Lande g factor which again signifies the Zeeman contribution. For field direction in the nodal plane, the spectra are more spread out and the density of peaks do not repeat periodically with energy as it does for field perpendicular to the nodal plane. The Zeeman splittings are less prominent and the low energy topological regime shrinks further with reduced m^* values.

Title & Abstract for Short Presentation 2:

Preparation and characterization of magnetic nanoparticles for industrial and medical applications

Synthesis and characterization of magnetic particles, especially nanomagnetic particles, with controlled size, composition and orientation is of both fundamental and technological interest. Magnetic nanocrystals show size-tunable magnetic properties and is important from fundamental view as well as applications in magnetic data storage, magnetic recording media, magnetic refrigeration, magnetic sensor, diagnostic, drug delivery systems, etc. Magnetic biomaterials are usually used in particle form and can be ferro-, para-, ferri-, antiferro or superpara-magnetic, they are often encapsulated by coatings that can be diamagnetic; this results in a wide range of magnetic responses to an applied field. They can be

manipulated by an external magnetic field – this feature is useful for separation, immunoassay and drug targeting. If size of the magnetic particles are reduced to a few \AA , they will exhibit several interesting properties such as giant magnetoresistance, superparamagnetism, small coercivity, low saturation magnetization etc. as compared to their bulk counterparts.

Title & Abstract for Short Presentation 3:

Quantum Tunneling - A world of possibilities

Quantum tunneling is a process that can't be explained by classical approach. The idea sprouts from the wave-particle duality of Quantum Mechanics. Tunneling explains the physics behind the kinetic energy of alpha-particles that escape the nucleus during alpha-decay. Applications of quantum tunneling are found in tunneling microscope, tunneling diodes, force sensors and of-course the future vast area of quantum computing which is the basic of the development of future Quantum Computers.

Title & Abstract for Short Presentation 4:

Thin Film as Supercapacitor

The study of thin superconducting films has been an important component of the science of superconductivity for more than six decades. It played a major role in the development of currently accepted views of the macroscopic and microscopic nature of the superconducting state. In recent years the focus of research in the field has shifted to the study of ultrathin films and surface and interface layers. This has permitted the exploration of one of the important topics of condensed matter physics, the superconductor–insulator transition. This review will discuss this phenomenon as realized in the study of metallic films, cuprates, and metallic interfaces. These are in effect model systems for behaviors that may be found in more complex systems of contemporary interest.
