

# **RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE**



## ***Short Report*** **2020**

**RAHARA**

**KOLKATA – 700 118**

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## **Introduction**

*The Ramakrishna Mission Boys' Home at Rahara, a branch centre of the Ramakrishna Mission, was founded in 1944 as an orphanage with a nucleus of 37 boys rendered orphan by the Great Bengal Famine of 1942-1943. Since then the Home grew in dimensions and activities adhering to the principle of service to mankind in the spirit of worship. Today, the Home is an educational complex with several schools and colleges wherein nearly four thousand students are receiving education and training in different subjects and trades according to the aptitude of each individual.*

*This College which forms an integral part and unit of this educational complex is owned and managed by the Ramakrishna Mission. The foundation stone of the College was laid by Srimat Swami Vireswaranandaji Maharaj, the then General Secretary of the Ramakrishna Mission, on 3rd December, 1961 and the College started functioning in July, 1963. The College was established with a view to commemorating the First Birth Centenary of Swami Vivekananda, the Illustrious Patriot-Saint of India and with a view to imparting a general, value-based education in the light of the teachings of Ramakrishna-Vivekananda so that the young pupils may get ample opportunities to build up their character to make themselves useful to their families and to fulfill at the same time their basic obligation to the country.*

*The college is situated in the district of North 24-Parganas, identified by the Government as a district highly populated by citizens belonging to SC/ST, OBC and minority community. The district is also identified by the UGC Committee as low GER (**G**ross **E**nrolment **R**atio) district. The college not only caters the need of local students but it also attracts a large number of students belonging to lower-middle and low income groups from remote areas of West Bengal situated in the districts of South 24 Parganas, West Midnapore, Maldaha and areas adjacent to international border with Bangladesh.*

*The college offers higher education in seven science branches – UG & PG courses in Chemistry Mathematics & Botany and UG courses in Botany, Mathematics, Physics, Microbiology, Computer Science and Zoology. Since its very beginning, the vision of this college has been two-fold –(i) exposing young minds to advanced scientific topics*

and imparting hands-on experiencing to sophisticated analytical instruments and (ii) establish the college as a potential center of research activities; thus creating a strong tradition of academic activities and an ambience that favours the scholarly activities.

In all these years, the students of this college has excelled academically in the University Exams and secured high ranks in merit lists. The students of this college are also very enthusiastic to assess their talents in different National-level Examinations [e.g. JAM conducted by IITs, entrance tests conducted by IISc (Bangalore), JNCASR (Bangalore, ISM Dhanbad()) and various other Indian Universities such as Jadavpur University etc.]. Students from our Post Graduate Department of Chemistry has qualified in various National-level examinations such as NET, GATE etc. to become eligible to receive research scholarships.

As is evident from the trends emerging in recent years, majority of the UG students pursue higher studies in pure science or technology in the universities, with a few opting for job-oriented courses such as MBA, MCA etc. The choice of the PG students has been either to pursue a research career or to undertake intensive preparation for different jobs. Overall, the placement record over the past four decades have been satisfactory. Our students are well placed in different Nationally and internationally acclaimed academic and research institutions, in schools, in Government and semi-Government jobs, in private sectors, NGOs etc.

It is probably one of the very few undergraduate colleges in West Bengal which undertook research projects/programmes a decade ago. The devoted and untiring efforts of the staff members and research scholars have so far produced around **100** publications (in internationally refereed journals). The college has so far produced seven Ph.D. s, and currently fourteen(14) students are persuing research work for their Ph.D degrees..

The college envisions itself as a potential center of higher education in near future with increasing thrust in undertaking research projects in advanced scientific topics, thus attracting and engaging the best of the students to the frontier areas of respective discipline. With its currently available limited human resource, infrastructural and

*instrumental facilities, attaining those higher standards have become more difficult. The college expects a generous funding from the various Government / Non-Government agencies to meet its scientific and social obligations.*

*Our college has achieved the following milestones (2020- 2021) :*

- **NAAC accreditation** : Accredited with Grade A (CGPA : 3.14),
- **CPE Status** : College with Potential for Excellence (CPE) by the UGC from 2016
- **WBDST-FIST Award** : Physics, Chemistry, Botany and Zoology have been awarded WBDST-FIST from 2014-2015 (for 3 years)
- **DST-FIST Award** : The College as a whole has been awarded by the DST, Govt of India from the session 2013-2018
- West Bengal State University has approved our college as a Research Centre named “**Swami Vivekananda Centre for Multidisciplinary Research in Basic Sciences and Social Sciences**” on 2015.
- UGC has conferred the status of **Autonomy** to our college from the session 2017-2018.
- **NIRF** India ranking-2019 is 8<sup>th</sup> and ranking-2020 is 11<sup>th</sup> in India.
- The college is the **INSTITUTIONAL MEMBER of ASIA PACIFIC QUALITY NETWORK** in 2019
- Recognition of **SIROs** by Ministry of Science and Technology, New Delhi.
- **DBT STAR** College status by The Department of Biotechnology, Govt. of India.

### **Vision and Mission of the Institution**

#### **Vision**

The college is a unit of Ramakrishna Mission Boys' Home, Rahara which is a branch centre of the worldwide organization, Ramakrishna Math & Ramakrishna Mission established by Swami Vivekananda.

Swami Vivekananda said 'My ideal indeed can be put into a few words and that is: to preach unto mankind their divinity, and how to make it manifest in every movement of life' & emphasized the need of 'Modern Science coupled with Vedanta'. Poised in these two visions the institution tries to follow the ideal of *Atmano mokshartham jagaddhitaya cha*, freedom from the bondage of all ignorance & misery by realizing one's divine Self and mending the path for material, intellectual and spiritual good of the entire world. Imbibing this spirit, the college envisions to manifest itself into a powerful

centre of higher education aiming the full-fledged growth and fulfillment of all those coming in contact with it.

### **Mission**

The method followed to achieve the supreme good for oneself and for all others is 'Shivajnane jivaseva' – service done in a spirit of worship. Here in this college, the goal is to serve the students mostly coming from economically constrained circumstances by providing them quality education in the field of Science and in the art of all-square Personality Development by:

- (i) Exposing young minds to advanced scientific topics and imparting hands-on training over sophisticated analytical instruments
- (ii) To establish the college as a potential center of research activities thus creating a strong tradition of deep-rooted academic pursuits and an ambience that favours the scholarly activities
- (iii) Imparting a man-making, character-building education by a balanced development of the 3H's- Head, Heart and Hand so that the students may turn out to be wise citizens able to shoulder the responsibility of the Nation.
- (iv) A culture of labour and service, focus and perseverance, simple living and high thinking is transmitted to the students who are the future of the nation.

This sort of education system which harmonizes the best of the 3 'S's - Science, Service and Spirituality is indeed one of the striking features of the college. Thus the institution stands tall to reach unimaginable heights which many others may only dream about.

### **Detailed Existing Facilities of the college**

<b>Facilities</b>	<b>Details of facilities</b>	<b>Numbers and other details</b>
Auditorium/seminar complex with infrastructural facilities		3
Sports facilities	Playground	5
	Gymnasium	2

Residential facilities for teaching and non-teaching staff	For teaching staff	5 residential quarters
	For non -teaching staff	6 residential quarters
Cafeteria		1
	Inpatient facility	Ramakrishna Mission Sevapratishthan being a branch center of the same organization, can be availed
	Outpatient facility	Ramakrishna Mission Boys' Home, Rahara Dispensary service is available
	Emergency care facility	Ramakrishna Mission Boys' Home, Rahara Hospital is available
	Qualified doctor- Part Time	10
	Qualified Male Attendant - Full Time	04
	Qualified Male Attendant - Part Time	02
Facilities like banking, post office, book shops	Bank	United Bank of India, Rahara Branch
	Post Office	Rahara Post Office
	Book Shops	Vivekananda Book House (rented)
		Sales Counter For Books on Value Education
Biological waste disposal	Organic waste management system	All the microbiological waste products and equipments used for that purpose are autoclaved on a regular basis
Generator or other facility for management/ regulation of	Generator	Three (3)125 KVA
	Green power supply with large battery bank	1. 5 kVA (three numbers)

electricity and voltage		2. 10 kVA (one number)
		3. 3 kVA (five number)
	Solar power (on-grid)	92 Kwatt
Solid waste management facility		This is regularly done by Khardah Municipality

#### Details of PhD students registered per teacher during the year

Name of full-time teachers with PhD	Qualification	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution?/If not, when did he/she leave the institution?	Name of the scholar	Month and Year of registration of the scholar	PhD Scholar's Title of the Thesis
ANIRBAN KUNDU	PhD	Yes	2021	yes	ParbejL askar	29/09/2021	Genome-wide identification of abiotic stress responsive miRNAs in <i>Phaseolus vulgaris</i> .
ANIRBAN KUNDU	PhD	Yes	2021	yes	Pranab Santara	29/09/2021	Identification of genomic LOCI responsible for abiotic stress tolerance through transcriptome analysis in <i>Vigna</i>

							<i>mungo.</i>
BISWAJIT GHOSH	PhD	Yes	2015	yes	Suprote em Mukherjee	29/09/2021	Application of biotechnological methods towards improvement of the synthesis of medicinally important bioactive compounds from Indian pennywort ( <i>Centellaasiatica</i> (L.) Urb)
BISWAJIT GHOSH	PhD	Yes	2015	yes	Diptesh Biswas	29/09/2021	Exploitation of underutilization wild species of Solanum for nutritionally and medicinally important compounds and modulation in their synthesis using biotechnological strategies.
SWAPAN KUMAR GHOSH	PhD	Yes	2015	yes	Tanmay Bera	29/09/2021	Evaluation of <i>in vitro</i> anticancer and antioxidant activity of solvent extract of some mushrooms.
KOUTILYA BHATTARC HARJEE	PhD	Yes	2021	yes	Partha Ganguly	29/09/2021	Isolation, characterization and comparative efficacy evaluation of <i>Duttaphrynusmelanostictus</i> and <i>Hoplobatrachustigerinus</i> skin anti-microbial



							components against common pathogenic microbes.
HARISANKA R DEY	PhD	Yes	2019	yes	Basudev Murmu	29/09/2021	Isolation and Characterization of Cyanobacterial Bioactive Secondary Metabolites from Freshwater habitats of "Jangal Mahal" region of West Bengal and screening for novel antimicrobial agents from potential species.

**Details of teachers awarded National/International fellowship for advanced studies/ research during the year**

Name of the teacher awarded national/ international fellowship/financial support	Name of the Award/Fellowship	Month and Year of Award	Awarding Agency
Swami kamalasthananda	National Seminar on "Planetary Crisis and Huan liberation"	04.03.2021	Indian Council of philosophical research
Bipul Mondal	DST-SERB Fellowship	13.11.2019	DST-SERB
Koustab Mondal	DST-SERB Fellowship	26.11.2019	DST-SERB
Saugata Sarkar	DST-SERB Fellowship	3.3.2021	DST-SERB

**Details of grants received from Government and Non-governmental agencies for research projects, endowments, Chairs in the institution during the year (INR in lakhs),**

<b>Name of the Principal Investigator/ Co-Investigator (if applicable)</b>	<b>Name of the Funding Agency</b>	<b>Type (Government/Non-Government)</b>	<b>Funds provided (INR in lakhs)</b>	<b>Month and Year of receiving the grant</b>	<b>Duration of the Project</b>
Dr. P.K.Rana	WB DST	<b>Government</b>	855300	2019	3 years
Dr. Bikash Chakraborty	WB DST	<b>Government</b>	759900	2019	3 years
Dr. Harisankar Dey	WB DST	<b>Government</b>	1099800	2018	3 years
Dr. Koutilya Bhattacharjee	WB DST	<b>Government</b>	1153000	2018	3 years
Dr. Swapan Kumar Ghosh (Co PI)	WB DST	<b>Government</b>	1999600	2018	3 years
Dr. Sougata Sarkar	WB DST	<b>Government</b>	405000	2018	3 years
Dr. Buddhadeb Dutta	WB DST	<b>Government</b>	300000	2018	3 years
Dr. Swapan Kumar Ghosh (Co-PI)	WB DST	<b>Government</b>	1265000	2019	3 years
Dr. Swapan Kumar Ghosh (Co-PI)	WB DST	<b>Government</b>	1999600	2018	3 years
Dr. Swapan Kumar Ghosh (Co-PI)	WB DST	<b>Government</b>	2661600	2018	3 years
Dr. Biswajit Ghosh	RCFC-ER, NMPB, Jadavpur University	<b>Government</b>	304700	2020	6 months
Dr. Sougata Sarkar	DST-SERB	<b>Government</b>	1830000	2018	3 years

**Details of research papers per teacher in CARE Journals notified on UGC website during the year**

<b>Title of the Paper</b>	<b>Name of the Author(s)</b>	<b>Name of the Journal</b>	<b>Month and Year of publication</b>	<b>ISSN</b>	<b>Link to the notification in UGC enlistme</b>

					nt of the Journal
A Note on the value distribution of a differential monomial and some normality criteria	Saha, Sudip; Chakraborty, Bikash	Rendiconti del Circolo Matematico di Palermo Series 2	2021-04-26	0009725X	Scopus
A Visual Proof That $e < A \Rightarrow A(e)$	Haque, Nazrul	MATHEMATICAL INTELLIGENCE R	SEP 2020		WoS
A Visual Proof: $e \leq A \leq B \Rightarrow AB > BA$	Haque, Nazrul	Resonance	2021-02-04	0971-8044 / 0973-712X	WoS
An assessment of the temporal alterations in the trophic status and habitat heterogeneity of the anthropogenically influenced Bhagirathi–Hooghly estuary in reference to phytoplankton community and environmental variables	Dutta, Soumak; Choudhury, Avik Kumar	Environmental Science and Pollution Research	2021-04-29	9441344	Scopus
Anticancer Activity of Solvent Extracts of <i>Hexagonia glabra</i> against Cervical Cancer Cell Lines	Ghosh, Swapan Kumar; Sanyal, Tapojyoti; Bera, Tanmay	Asian Pacific Journal of Cancer Prevention	2020-07-01	15137368	Scopus
Antiproliferative and apoptotic effect of ethanolic extract of <i>Calocybe indica</i> on PANC-1 and MIAPaCa2 cell lines of pancreatic cancer.	Ghosh, S K; Sanyal, T	Experimental Oncology	2020 Sep	18129269	Scopus

Antiproliferative, apoptotic, and antimigration property of ethyl acetate extract of <i>Calocybe indica</i> against HeLa and Caski cell lines of cervical cancer, and its antioxidant and mycochemistry analysis	Ghosh S.K., Bera T., Pal S.	Middle East Journal of Cancer	Oct-20	20086709	Scopus
Benzoic acid treated <i>Drosophila melanogaster</i> : the genetic disruption of larval brain stem cells and non-neural cells during metamorphosis	Chatterjee, Tridip; Ghosh, Swapan Kumar; Paik, Shaubik; Chakravarty, Amit; Basak, Ashim Kumar	Toxicology and Environmental Health Sciences	2021-03-01	20059752	Scopus
Biological control (in vitro) of the pathogen causing leaf blight disease of mint ( <i>Mentha arvensis</i> L.)	Gatak S., Polley S.K., Ghosh S.K., Chakrabarty N.	Plant Cell Biotechnology and Molecular Biology	Dec-20	9722025	Scopus
Correction to: On the Cardinality of Unique Range Sets with Weight One	Chakraborty, B.; Chakraborty, S.	Ukrainian Mathematical Journal	2021-05-12	1573-9376	Scopus
Cu(II)-Based Nanofibrous Metallogel for Phenoxazinone Synthase-like Activity	Sarkar, Sougata; Maji, Pradip K.; Negishi, Yuichi; Dutta, Soumen; Das, Tarak N.; Pan, Rahul; Sarkar, Saikat	ACS Applied Nano Materials	2021-01-14	2574-0970	WoS, Scopus
Cytological, genetical and phytochemically stable meta-Topolin (mT) - induced mass propagation of underutilized <i>Physalis minima</i> L. for production of withaferin A	Halder, Tarun; Ghosh, Biswajit	Biocatalysis and Agricultural Biotechnology		1878-8181	Scopus

De-polymerization of LDPE plastic by Penicillium simplicissimum isolated from municipality garbage plastic and identified by ITSs locus of rDNA	Ghosh, Swapan Kumar; Pal, Sujoy	Vegetos	2021-01-17	9704078	Scopus
Effect of interfacial imperfections on SH-wave propagation in a porous piezoelectric composite	Rakshit, Sharmistha; Mistri, Kshitish Ch.; Das, Amrita; Lakshman, Anirban	MECHANICS OF ADVANCED MATERIALS AND STRUCTURES		1537-6494	WoS, Scopus
In silico fight against novel coronavirus by finding chromone derivatives as inhibitor of coronavirus main proteases enzyme	Sepay, Nayim; Sepay, Nadir; Hoque, Ashique Al; Mondal, Rina; Halder, Umesh Chandra; Muddassir, Mohd.	Structural Chemistry	2020-05-13	1040-0400	WoS, Scopus
In target areas where human mosquito-borne diseases are diagnosed, the inclusion of the pre-adult mosquito aquatic niches parameters will improve the integrated mosquito control program	Ghosh, Swapan Kumar; Podder, Dipanjan; Panja, Atanu Kumar; Mukherjee, Sabyasachi	PLOS Neglected Tropical Diseases	2020-08-14	19352727	WoS, Scopus

Neem leaf glycoprotein salvages T cell functions from Myeloid-derived suppressor cells-suppression by altering IL-10/STAT3 axis in melanoma tumor microenvironment	Sarkar, Madhurima; Bhuniya, Avishek; Ghosh, Sarbari; Sarkar, Anirban; Saha, Akata; Dasgupta, Shayani; Bera, Saurav; Chakravarti, Mohona; Dhar, Sukanya; Guha, Ipsita; Ganguly, Nilanjan; Das, Tapasi; Banerjee, Saptak; Pal, Smarajit; Ghosh, Swapan Kr; Bose, Anamika; Baral, Rathindranath	MELANOMA RESEARCH	Apr-21	9608931	WoS, Scopus
On the Cardinality of a Reduced Unique-Range Set	Chakraborty, B.	UKRAINIAN MATHEMATICAL JOURNAL	APR 2021	415995	WoS, Scopus
On the Cardinality of Unique Range Sets with Weight One	Chakraborty, B.; Chakraborty, S.	UKRAINIAN MATHEMATICAL JOURNAL	DEC 2020	415995	WoS, Scopus
Productive method for commercial propagation through direct embryogenesis and organogenesis in <i>Ledebouria revoluta</i> an underutilized medicinal plant with cardioprotective properties	Haque S.M., Ghosh B.	Industrial Crops and Products	DEC 1 2020	9266690	WoS, Scopus

Soil pathogen, Fusarium oxysporum induced wilt disease in chickpea: a review on its dynamicity and possible control strategies	Bhar, Anirban; Jain, Akansha; Das, Sampa	Proceedings of the Indian National Science Academy	2021-06-24	3700046	WoS, Scopus
SOME RESULTS ON THE UNIQUE RANGE SETS	Chakraborty, Bikash; Kamila, Jayanta; Pal, Amit Kumar; Saha, Sudip	JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY	MAY 2021	3049914	WoS, Scopus
Soil pathogen, Fusarium oxysporum induced wilt disease in chickpea: a review on its dynamicity and possible control strategies	Bhar, A., Jain, A. and Das, S	Proceedings of the Indian National Science Academy	44371	0370-0046 / 2454-9983	WoS
Pinned or moving: States of a single shock in a ring	Parna Roy, Anjan Kumar Chandra, and Abhik Basu	PHYSICAL REVIEW	44013	2470-0045 / 2470-0053	WoS
Mitochondrial DNA diversity: Insight into population diversity, structure and demographic history of Penaeus monodon along the entire coastal region of India	D Mondal, S Dutta, A Mallik, N Mandal	Aquaculture Research	08-Aug-20	1355-557X / 1365-2109	WoS
Evolving Trends of Indian Research Performance in Cryptography: A Bibliometric and Computational Investigation.	B Ghosh, SP Dutta, A Mallik	JOURNAL OF SCIENTOMETRIC RESEARCH	December, 2020	2321-6654 / 2320-0057	WoS

Identification and characterization of novel microRNAs in disease-resistant and disease-susceptible <i>Penaeus monodon</i>	D Mondal, U Chakrabarty, S Dutta, A Mallik, N Mandal	Fish & Shellfish Immunology	May, 2021	1050-4648 / 1095-9947	WoS
Diversity of Cyanobacteria from Paddy Fields of Purba Bardhaman District of West Bengal, India.	Harisankar Dey and Tuhin Mallick	Indian Hydrobiology.	Sep-Dec, 2020	0971-6548	UGC-CARE List
HOMOLOGY THEORY ASSOCIATED WITH NEW OMEGA-SPECTRUM,,	PRAVANJAN KUMAR RANA AND BHASKAR MANDAL	JOURNAL OF THE CALCUTTA MATHEMATICAL SOCIETY,17(1),1-8,2021		2231-5314	UGC-CARE List
Productive method for commercial propagation through direct embryogenesis and organogenesis in <i>Ledebouria revoluta</i> -an underutilized medicinal plant with cardioprotective properties	Haque, SM and Ghosh, B	INDUSTRIAL CROPS AND PRODUCTS	Dec 1 2020	0926-6690 / 1872-633X	WoS
Assessment of foliar and floral micromorphology, pollen morphology and other reproductive traits of different colour-forms of <i>Caesalpinia pulcherrima</i> (L.)	Goswami, S.; Karmakar, M.; and Roy, B.	Sw. J. Botan. Soc. Bengal 74 (2):91-104	December, 2020	0971-2976	UGC-CARE List
Naringenin Ameliorates Palmitic Acid-induced Fatty Acid Stress in Hepatocytes	Subhajit Maity, Partha Chakrabarti, Abhay Sankar Chakraborti.	The Natural Products Journal	44197	2210-3155 / 2210-3163	WoS



Formulation, physico-chemical characterization and antidiabetic potential of naringenin-loaded poly D, L lactide-co-glycolide (N-PLGA) nanoparticles,	Subhajit Maity, Abhay Sankar Chakraborti.	European Polymer Journal	2020	0014-3057 / 1873-1945	WoS
Structural insight into the effect of polymorphic variation on the functional dynamics of methionine synthase reductase: Implications in neural tube defects, doi.org/10.1111/cbdd.13780[Joint 1st author].	Susanta Sadhukhan, Subhajit Maity, Sandipan Chakraborty, Silpita Paul, Dinesh Munian, Arup Kumar Pattanayak, Biman Jana Madhusudan Das.	Chemical Biology & Drug Design	44228	1747-0277 / 1747-0285	WoS
Effectiveness of natural carotenoids and coloured chemical factorse on growth and colouration in red molly <i>Poecilia latipinna</i> ( Lesueur, 1821)	Mandal, B., Mukherjee, A. and Ganguly, A.	Journal of Environment & sociobiology	30.06.2021	0973-0834	WoS
First report of <i>Geocoris lituratus</i> (Geocoridae: Hemiptera) as egg predator of <i>Graphium agamemnon</i> (Papilionidae: Lepidoptera) in urban landscape, West Bengal	Shil, D, Bagchi, A., Sarkar, P., Sardar, S., Mandal, B., Mukherjee, A. and Mitra, B.	Ambient Science	44287	2348-5191 / 2348-8980	WoS

**Details of books and chapters in edited volumes / books published per teacher during the year**

Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year and month of publication	ISBN/ISSN number of the proceeding	Name of the publisher
Anirban Bhar	Rice Research for Quality Improvement: Genomics and Genetic Engineering	Rice Tolerance to Multiple Abiotic Stress: Genomics and Genetic Engineering	NA	NA	International	November, 2020	978-981-15-4120-9	Springer, Singapore.
Anirban Bhar	Genome Engineering for Crop Improvement	Improving Biotic and Abiotic Stress Tolerance in Plants: A CRISPR-Cas Approach.	NA	NA	International	April, 2021	978-3-030-63372-1	Springer, Switzerland.
Dr. Harisankar Dey	Biodiversity Conservation and Livelihood Management	Freshwater Cyanobacterial Diversity of Similipal Biosphere Reserve, Odisha, India.	NA	NA	National	April, 2021	9789351248897	Astral International Pvt. Ltd.

Dr. Sekhar Pal	Science and Technology: A Concise History and Evolution	Beginning of journey of some pioneering Science Research Institutes in Bengal	NA	NA	National	December, 2020	9788194506034	Kumud Publications.
Dr. Chayan Halder	Recent Trends in Image Processing and Pattern Recognition	A Survey on Line Segmentation Techniques for Indic Scripts	Recent Trends in Image Processing and Pattern Recognition	3rd International Conference on Recent Trends in Image Processing & Pattern Recognition - RTIP2R 2020	International	2021	978-981-16-0506-2/ 978-981-16-0507-9	Springer Singapore
Dr. Chayan Halder	Proceedings of International Conference on Advanced Computing Applications	Word Segmentation of Offline Handwritten Bangla Text Lines	Proceedings of International Conference on Advanced Computing Applications	International Conference on Advanced Computing Applications	International	2021	978-981-16-5207-3	Springer, Singapore

**Details of collaborative activities for research, faculty exchange, student exchange, internship, on-the-job training, project work, etc. during the year**

<b>Sl. No.</b>	<b>Title of the collaborative activity</b>	<b>Name of the collaborating agency with contact details</b>	<b>Name of the participant</b>	<b>Duration</b>	<b>Nature of the activity</b>
1	Summer Project	IISER Kolkata	Sutanu Mukhopadhyay	2 months	Summer Project
2	virtual internship	YAI	Sutanu Mukhopadhyay	2 months	virtual internship
3	Online Course-14 nos.	Coursera	Souvik Sarkar	1 months	online course
4	Summer Project	IISER Kolkata	Souvik Sarkar	2 months	Summer Project
5	Summer Research Training program	CSIR-NEIST	Souvik Sarkar	2 months	Summer Research Training program
6	Online webinar, workshop and program-50 Nos.	50 different Institutions	Souvik Sarkar	1 or 2 days	Online webinar, workshop and program-50 Nos.
7	International Conference	VNIT Nagpur	Swarnava Adhikari	5 days	International Conference
8	Natioanl Webinar	IIT Dhanbad	Swarnava Adhikari	2 days	National Webinar
9	Summer Research Training program	CSIR-NEIST	Pranab Ghosh	2 months	Summer Research Training program
10	learn LATEX for research using Overleaf	LLRO	Rohit Bose	7 days	One week online Workshop on learn LATEX for research using Overleaf
11	Virtual Math Fest 2020	ISI, Kolkata, IMSc, Chennai & HRI	Rohit Bose	7 days	Virtual Math Fest 2020
12	Summer Research Training program	CSIR-NEIST	Sandipan Chakraborty	2 months	Summer Research Training program
13	Summer Fellowship 2020	FOSSEE	Somnath Pandit	6 days	FOSSEE Summer Fellowship 2020

14	Virtual Internship with Science Leader Program	Young Academy of Sciences	Sukriti Maity	2 months	Virtual Internship with Science Leader Program
15	Summer project	IISER, Kolkata	Rakesh Ghosh	2 months	Summer project : Coronavirus disease COVID-19 study on the disease and its pathogenesis

**Details of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the year (only functional MoUs with ongoing activities to be considered)**

Name of the institution/ industry/ corporate house	Month and Year of signing MoU	Duration	List of activities under each MOU	Number of students/ teachers who benefitted from MoUs
Institute of Nano science and Technology (INST), Mohali	16.01.2021	5 yrs	2 months internship program provided by INST to PG and UG students of our college	5
Nahata Vivekananda Yuva Pathachakra	04.01.2021	5 yrs	To facilitate service activities and relief works for the poor, needy and under privileged people of the villages	8
Nagarukhra Vivekananda Yuva Pathachakra	14.01.2021	5 yrs	To facilitate service activities and relief works for the poor, needy and under privileged people of the	10

			villages	
Akhil Bharat Vivekananda Yuva Mahamandal, Chowberia branch	08.02.2021	5 yrs	To facilitate service activities and relief works for the poor, needy and under privileged people of the villages	21
Rampur Vivekananda Yuva Pathachakra	22.03.2021	5yrs	To facilitate service activities and relief works for the poor, needy and under privileged people of the villages	10

**Details of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year**

Name of the award/ medal	Team / Individual	Name of the student	Inter-university / State / National / International	Name of the event	Month and Year
Sate Level Online Quiz Competition	Individual	Nilay Saha	State	Sate Level Online Quize Competition	September, 2020
International Yoga Day	Individual	Subhadip Maiti	International	International Yoga Day	June, 2020
Envision T20	Individual	Venkatesh Anand	Inter University	Envision T20	2020
Thomas School of Music and	Individual	Sagnik Mondal	International	Thomas School of Music and	2020

Dance				Dance, Malaysia	
International Yoga Day	Individual	Shreedam Chakraborty	International	International Yoga Day	June, 2020
Ayush Yoga Quiz	Individual	Arita Mondal	National	Ayush Yoga Quiz	2020
Certificate of Energy Literacy	Individual	Arita Mondal	National	Certificate of Energy Literacy	August, 2020
IFS- Forensic Investigation Quiz	Individual	Arita Mondal	National	IFS- Forensic Investigation Quiz	June, 2020
Awareness in Yoga Quiz	Individual	Arita Mondal	National	Awareness in Yoga Quiz	June, 2020
Get CISSP certified in quick and easy steps	Individual	Arita Mondal	National	Get CISSP certified in quick and easy steps	June, 2020
online video creator for quick & amp: Professional vedios in vedio	Individual	Arita Mondal	National	online video creator for quick & amp: Professional vedios in vedio	June, 2020
Barbicide Covid-19 certification	Individual	Arita Mondal	National	Barbicide Covid-19 certification	2020
online quiz on Covid-19 awareness program	Individual	Arita Mondal	National	online quiz on Covid-19 awareness program	2020
Keyword Research Exam	Individual	Arita Mondal	National	Keyword Research Exam	May. 2021
E-waste Pledge	Individual	Arita Mondal	National	E-waste Pledge	June, 2020
Awareness program Covid-19	Individual	Arita Mondal	National	Awareness program Covid-19	2020
Entrepreneur ship Pledge	Individual	Arita Mondal	National	Entrepreneur ship Pledge	July, 2020
Online Quiz	Individual	Arita Mondal	National	Online Quiz	2020

janata Curfew pledge	Individual	Arita Mondal	National	janata Curfew pledge	June, 2020
Ek bharat Shreshtha Bharat Quiz	Individual	Arita Mondal	National	Ek bharat Shreshtha Bharat Quiz	June, 2020
Ayush Sanjivani Quiz	Individual	Arita Mondal	National	Ayush Sanjivani Quiz	2020
Electronics Quiz-2020	Individual	Arita Mondal	National	Electronics Quiz-2020	2020
e-Quiz Environment Awareness	Individual	Arita Mondal	National	e-Quiz Environment Awareness	June, 2020
Online Quiz o Gandhi	Individual	Arita Mondal	National	Online Quiz o Gandhi	2020
Spit Free India movement	Individual	Arita Mondal	National	Spit Free India movement	August, 2020
E Quiz on Business Economics	Individual	Arita Mondal	National	E Quiz on Business Economics	july, 2020
Quiz on C programming	Individual	Arita Mondal	National	Quiz on C programming	2020
Onliene Quiz I National Doctors' Day	Individual	Arita Mondal	National	Onliene Quiz I National Doctors' Day	July, 2020
Sangit Bivakar 1st	Individual	Koushik Mitra	National	Sangit Bivakar 1st	2020
e-Quiz on Entomology	Individual	Nobundee Mukherjee	State	e-Quiz on Entomology	September, 2020
International e Conference	Individual	Nobundee Mukherjee	International	International e Conference	October, 2020
Drawing Competition	Individual	Nobundee Mukherjee	State	Drawing Competition	2020
E-MAT Quiz	Individual	Subham Kundu	National	E-MAT Quiz	June, 2020
Award obtained from YouTube Gaming	Individual	Sayan Biswas	International	Award obtained from YouTube Gaming	2020
Online quiz on Covid-19	Individual	Sagar Bowmick	International	Online quiz on Covid-19	2020



awareness program				awareness program	
Chemi Quiz	Individual	Sagar Bowmick	State	Online quiz on Covid-19 awareness program	2020
Online quiz in Vedic mathematics	Individual	Atim Kumar Sasmal	State	Online quiz in Vedic mathematics	2020
Sports meet	Individual	Pradyut Das	State	Sports meet	2020
Online Quiz	Individual	Manash Mukherjee	State	Online Quiz	2020
Online Quiz on Covid-19	Individual	Manash Mukherjee	State	Online Quiz on Covid-19	August, 2020
Photography Competition	Individual	Rupam Das	State	Photography Competition	2020
Sangit Visarad	Individual	Aritra Mondal	State	Sangit Visarad	July, 2020
Online National Quiz	Individual	Sandip Pramanik	National	Online National Quiz	2020
Online Botany Quiz	Individual	Sandip Pramanik	National	Online Botany Quiz	2020
Online Internship talk	Individual	Sandip Pramanik	National	Online Internship talk	2020
Mimamsa-2020, centre topper	Individual	Soumya Roy	National	Mimamsa-2020, centre topper	2020

**Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)**

<b>Name of Teacher who attended the programme</b>	<b>Title of the programme</b>	<b>Duration (from - to) (DD-MM-YYYY)</b>
Anirban Bhar	1. FACULTY DEVELOPMENT PROGRAMME ON "ADVANCED RESEARCH METHODOLOGY FOR DECISION-MAKING" organized by BIRLA SCHOOL OF COMMERCE, BIRLA GLOBAL UNIVERSITY,	<b>15-12-2020 to 16-12-2020</b>

	BHUBANESWAR	
Dr. Bipul Mondal	Refresher Course (16.03.2021 to 31.03.2021)	<b>16-03-2021 to 31-03-2021</b>
Dr Anjan Kumar Chandra	1) One day Orientation program on "NAAC & CAS" (23rd August, 2020) 2) One week FDP on "HIGHER EDUCATION: ROAD AHEAD DEVELOPING NEXT GENERATION ACADEMIC LEADERS" from November 25- December 01, 2020 organised by Department of Commerce & IQAC, Sri Venkateswara College, University of Delhi in Collaboration with Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, Teaching Learning Centre, Ramanujan College. 3) Two week Online Faculty Development Programme on "ICT Tools for Teaching, Learning Process and Institute" jointly organized by Electronics and ICT Academies held from 15 th – 26 th March, 2021 under Ministry of Electronics and Information Technology (MeitY), Government of India	<b>15-03-2021 to 26-03-2021</b>
Mr. MANAS MOULIC	1. Successfully completed the Faculty Induction Programme organized by the UGC - Human Resource Development Centre, University of Hyderabad from 30th November to 29th December, 2020 and obtained grade 'A+'.	<b>30-11-2020 to 29-12-2020</b>

Bikash Chakraborty	1. FIP from Noth Bengal University 25.11.2020 - 24.12.2020 2. Attended One RC in Mathematics from Noth Bengal University 8.01.2021-21.01.21	<b>25-11-202 to 24-12-2020 &amp; 8-01- 2021 to 21-01-2021</b>
Dr. Kshitish Ch Mistri	1. Refresher Course-01 (15.03.2021 27.03.2021) 2. Faculty Induction Programme November 25, 2020 to December 24, 2020	<b>15-03-2021 to 27-03-2021 &amp; 25.11.2020 to 24-12-2020</b>
Dr. Chayan Halder	1) 5 day international FDP organized by South Asian Institute for Advanced Research & Development (SAIARD) on Research Methodology. From 10/05/2021 to 14/05/2021 2) 2 day national FDP organized by Women's College, Calcutta and Bhairab Ganguly College on CAS, WBHS & Other Service Benefits for College Employees. From 08/06/2021 to 09/06/2021	<b>10-05-2021 to 14-05-2021</b>
DR.PRAVANJAN KUMAR RANA	ONE WEEK FDP ON PYTHON 3.4.3,IQAC ,BARNAGAR COLLEGE,SORBHOG,BARPETA,27TH AUGUST TO 2ND SEPTEMBER,2020	<b>27-08-20220 to 02-09-2020</b>
Dr. Partha Ray	5-day Faculty Development Programme on "Applied Mathematical skills for Science and Engineering Using Contemporary Tools" from 14th to 18th September, 2020.	14-09-2020 to 18-09-2020
Bhaskar Haldar	1. Participated in Faculty Induction Programme - 18.11.2020 - 17.12.2020 from Bharathidarsan University 2. Refresher Course - 22.02.2021 - 06.03.2021 from Jadavpur University	<b>18-11-2020 to 17-12-2020 &amp; 22- 02-2021 to 06-03-2021</b>

Dr. Palash Nath	Attended in UGC-Sponsored Faculty Induction Programme (FIP) conducted by HRDC, CU from March 02, 2021 to March 29, 2021.	<b>02-03-2021 to 29-03-2021</b>
Samir Sardar	1. Online FDP from UGC- HRDC Kurukshetra University from 18.11.2020 to 17.12.2020. 2.RC on Quantum Biology (interdisciplinary Science) from <b>16.02.2021 to 01.03.2021</b> . From UGC HRDC University of Goa .	<b>18-11-2020 to 17.12.2020 &amp; 16.02.2021 to 01.03.2021</b>
Dr. Sekhar Pal	FDP on “ICT Tools for Teaching, Learning Process and Institute” jointly organized by Electronics and ICT Academies (NIT Patna, MNIT Jaipur, PDPM IITDM Jabalpur, IIT Guwahati, IIT Kanpur, and IIT Roorkee) held from 15th – 26th March, 2021.	<b>15-03-2021 to 26-03-2021</b>

**Total webinar organized by the college during the session:**

Total webinar =59; International= 9, National=35, State level=15			
Date		Topic	Speaker
1 <sup>st</sup> July, 2020	N	Webinar on STEM Education and Then What?	Prof. Subhasish Choudhry, Director; IIT Bombay
1 <sup>st</sup> July, 2020	N	Webinar on Yantra, Tantra, Mantra	Sri Tapan Misra, Former director, Space  Application centre, Department of Space, ISRO
3 <sup>rd</sup> July, 2020	I	Webinar on Molecular Detection of Diabetes Mellitus from Exhaled Breath Analysis	Dr. Chiranjit Ghosh, Post-doctorate Research Fellow, Division of Infectious Disease, Harvard Medical School/BWH, Harvard University

3 <sup>rd</sup> July, 2020	I	Webinar on Biophysics of protein folding aggregation in Neurodegenerative diseases	Dr. Sumanta Ghosh, Postdoctoral Research Fellow, University of Texas, USA
18 <sup>th</sup> July, 2020	N	Webinar on Capacity Building & Career Guidance	Prof. Anil Sahasrabudhe, Chairman, All India Council for Technical Education, New Delhi
22 <sup>nd</sup> July, 2020	N	Webinar on Career prospects for students in higher education in the basic sciences - a contemporary perspective	Prof. Sarit K. Das, Director, Indian Institute of Technology, Ropar
22 <sup>nd</sup> July, 2020	I	Webinar on Algorithm Design: An Overview of Recent Advancement)	Prof. Diptarka Chakraborty, Assistant Professor, National University of Singapore
23 <sup>rd</sup> July, 2020	I	International webinar On Capacity Building & Career Guidance	Dr. Anujit Chakraborty, Assistant Professor of Economics, University of California, Davis
24 <sup>th</sup> July, 2020	N	Capacity Building & Career Guidance	Prof. Santanu Choudhury, , Indian Institute of Technology, Jodhpur
23 <sup>rd</sup> August, 2020	I	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
29 <sup>th</sup> August, 2020	I	One Day International Webinar on Mathematics and Mathematical Sciences  Topic: Are We Prepared	Prof. Ravi P. Agarwal, Texas A & M University-Kingsville.

		To Accept The Reality?	
26 <sup>th</sup> September, 2020	N	Induction Programme For the Newly admitted students of Microbiology of the college	Prof. Pratip Kumar Kundu, director Calcutta school of tropical medicine
28 <sup>th</sup> September, 2020	N	Induction Programme For the Newly admitted students of Chemistry of the college	Dr. Ashok Kumar Mishra, Professor and Dean Academic Research, Department Of Chemistry, IIT Madras.
29 <sup>th</sup> September, 2020	N	Induction Programme For the Newly admitted students of Zoology of the college	Prof. Arun Bandyopadhyay, Director, Indian Institute of Chemical Biology (IICB)
30 <sup>th</sup> September, 2020	N	Induction Programme For the Newly admitted students of Mathematics of the college	Prof. Asok Kumar Nanda, Indian Institute of Science Education and Research- (IISER) Kolkata
1 <sup>st</sup> October, 2020	N	Induction Programme For the Newly admitted students of Physics of the college	Prof. Rajesh Gopakumar, International Centre for Theoretical Sciences (ICTS-TIFR), Bengaluru
2 <sup>nd</sup> October, 2020	N	Induction Programme For the Newly admitted students of Computer Science of the college	Prof. Krishnendu Mukhopadhyay, ISI, Prof. In-charge, Advanced Computing and Microelectronics Unit, Indian Statistical Institute,
2 <sup>nd</sup> October, 2020	N	Induction Programme For the Newly admitted students of Computer Science of the college	Professor Amlan Chakrabarti, Professor and Director, A.K.Choudhury School of Information Technology, University of Calcutta
14 <sup>th</sup> October,	N	Induction Programme For the Newly admitted students of Botany of	Dr. Subhra Chakraborty, Director, National Institute of Plant Genome

2020		the college 2020	research, New Delhi
8 <sup>th</sup> November, 2020	S	Motivation Programme For the Newly admitted B.Sc. 1st yr. students of the college 2020	Dr. Paromita Roy, Deputy Director, JBNSTS  Dr. Smarajit Manna, Student Advisor, JBNSTS
13 <sup>th</sup> November, 2020	N	Motivation Programme For the Newly admitted M.Sc. Mathematics 1st yr. students of the college 2020	Prof Rajeeva Laxman Karandikar, Director, Chennai Mathematical Institute, H1 Sipcot IT Park, Siruseri, Kelambakkam
18 <sup>th</sup> November, 2020	N	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,
21 <sup>st</sup> November, 2020	N	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
23 <sup>rd</sup> November, 2020	N	Induction program For the Newly admitted Botany M.Sc. 1st yr. students of the college 2020	Professor S.K. Barik, Director, CSIR- National Botanical Research Institute, Rana Pratap Marg
28 <sup>th</sup> November, 2020	S	Motivational Programme For the all students of Microbiology of the college	Prof. Ramkrishna Sen, Professor & Head, Department of Biotechnology, Indian Institute of Technology (IIT), Kharagpur.
5 <sup>th</sup> December,	N	Webinar on 'Understanding the social language of	Dr. Subhadeep Chatterjee, Scientist, Centre for DNA Fingerprinting & Diagnostics, Hyderabad-500039,

2020		bacteria: Speak or not to speak?’	Telengana (Bhatnagar Awardee-2020)
5 <sup>th</sup> December, 2020	I	Webinar on Covid-19: history, awareness and therapeutic	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 to Positivity
8 <sup>th</sup> December, 2020	S	Webinar on ‘Awesome geographical sweep of a mutant coronavirus, with some hesitations.’	Prof. Partha P Majumder, Former Director, NIBMG, Kalyani and President, Indian Academy of Sciences.
11 <sup>th</sup> December, 2020	I	Webinar on Bacterial warfare mediated by Type VI Secretion system	Biswanath Jana, Department of Clinical Microbiology and Immunology, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel.
2nd January, 2021	I	Webinar on “Large deviations for random graphs”	Prof. Sourav Chatterjee, Professor of Mathematics and Statistics Stanford University, USA (Infosys Prize awardee 2020 in Mathematics)
4th January, 2021	N	Webinar on “Emerging Physics and Devices with Atomic Membranes”	Prof. Arindam Ghosh, Professor, Department of Physics, Indian Institute of Science, Bangalore (Infosys Awardee 2020 in Physical



			sciences)
8th January, 2021	S	Webinar on “Protein folding and interactions”	Prof. Pinakpani Chakrabarti, Senior Prof and J.C. Bose Fellow, Department of Biochemistry, Bose Institute
12th January, 2021	N	Observation of National Youth Day 2021. Webinar on “Swami Vivekananda : His Life and Message”	Prof. Subramanian Yashonath, Emeritus Professor, Solid State and Structural Chemistry Unit (SSCU), Indian Institute of Science, (IISC), Bangalore.
23rd January, 2021	N	Webinar on “Novel Aspects of Modern Physics”	Professor Nilmani Mathur, , Dept. of Theoretical Physics, Tata Institute of Fundamental Research (TIFR), Mumbai.
28th January, 2021	S	West Bengal Health Scheme for Govt. and Govt. Aided College and University Teachers and Officers of West Bengal.	Dr. Partha Karmakar, Deputy Secretary Academic, WBBSE, Former OSD & Ex-officio Assistant Director of Public Instruction, Govt. of West Bengal
11th February, 2021	S	Basic field approaches for pollination	Dr. Udipta Chakraborti Former Research Scholar University of Kalyani, Kalyani, Nadia West Bengal, India Pin code: 741235
20th February, 2021	S	Scientific Beekeeping for Managed Pollination and Production of Quality Honey and other Hive Products	Dr. Dipak Nayak Sr. Scientist & In-Charge ICAR-Central Institute for Subtropical Horticulture, Regional Research Station, Malda, WB

05th March, 2021	S	Election Process Awareness Programme	Dr. Jayanta Debabrata Chowdhury, BDO, Barrackpore II &  Sri Gopal Dey, Joint BDO, Barrackpore II
31st March, 2021	S	Tackling the Flu: From H1N1 to SARS-CoV-2  Organized by DBT STAR College Scheme, Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Arindam Mondal, Assistant Professor, IIT Kharagpur
8th May	N	Amino Acids and Trisubstituted Methanes (TRSMs) as Versatile Synthons: Rays of Hope for Autophagic Cell Death and Tuberculosis respectively?  Organized by DBT STAR College Scheme, Department of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara	Dr. Gautam Panda Scientist F  Senior Principal Scientist & Professor CSIR-CDRI
12th May, 2021	N	Chiral checkpoints during protein	DR. Rajan Sankaranarayanan

		<p>biosynthesis</p> <p>Organized by DBT STAR College Scheme, Department of Zoology,  Ramakrishna Mission Vivekananda Centenary College, Rahara</p>	<p>FNASc, FNA</p> <p>Chief Scientist, Structural Biology Laboratory CSIR-Centre for Cellular and Molecular Biology (CCMB), Awarded Infosys Prize 2020 in Life Sciences</p>
05th June, 2021	N	<p>World Environment Day Webinar on</p> <p>Broken Chain of Events: connecting predation risk to prey population abundance</p> <p>Organized by DBT STAR College Scheme, Department of Zoology,  Ramakrishna Mission Vivekananda Centenary College, Rahara</p>	<p>Dr. Maria Thacker, Associate Professor,,Macrophysiology Lab, Centre for Ecological Sciences, IISc Bangalore</p>
7th April, 2021	S	<p>The department of Computer Science organized a two day cyber security workshop in collaboration with Zero Dollar  Security</p>	<p>CEO Mr. Sohang along with his colleagues Mr. Harshit and Mr. Debjeet</p>
25th February, 2021	S	<p>Introduction to Data Science</p>	<p>Prof. Anirban Mukhopadhyay of Kalyani University</p>
01st March,	S	<p>Basics of image</p>	<p>Dr. Kaushik Roy, WBSU</p>

2021		processing and pattern recognition	
10th June, 2021	S	Recent trends in security and authentication in communications	Prof. Jyotsna Kumar Mandal
12th June, 2021	S	How to face interview board of various industries, what is their expectations from students etc.	Shri Subir Bandyopadhyay
24th June, 2021	N	Celebration of 7th International Yoga Day  Webinar on Yoga and Youth of India	<ul style="list-style-type: none"> <li>• Prof B.R. Ramakrishna, Vice Chancellor, Swami Vivekananda Yoga Anusandhana Samsthana</li> <li>• Prof. Y. Narahari, Dean of Division EECS, IISC, Bangalore</li> <li>• Dr. Sreekrishnan Venkiteswaran, CTO, GTS cloud unit, IBM</li> </ul>
13th & 14th July, 2021	N	National Webinar on The Philosophy of Education and Swami Vivekananda  Sponsored by Indian Council of Social Science Research, New Delhi	<ul style="list-style-type: none"> <li>• Swami Divyasudhananda, Principal, Ramakrishna Mission Vidyapith, Deoghar, Jharkhand</li> <li>• Swami Ekachittananda, Principal, Ramakrishna Mission Vidyamandira, Belur Math</li> <li>• Swami Narasimhananda, Secretary, Ramakrishna Mission Sevashrama, Kozhikode, Kerala</li> <li>• Prof. Bishnupada Nanda. Professor, Department of Education, Jadavpur University.</li> <li>• Dr Saradindu Mukherjee, Member, ICHR, New Delhi</li> <li>• Prof. Kumar Ratnam, D.Litt., Member Secretary, ICHR, New Delhi</li> </ul>

16th July, 2021	N	Webinar on "Water, water everywhere ..... Understanding how water plays important role in life and science"	Prof. Biman Bagchi, Distinguished Professor, Indian Institute of Science (IISc), Bangalore
15th September, 2021	N	Induction Programme  For the newly admitted UG student of Chemistry  Topic: The status of Chemistry Research in India: From P. C. Ray to the present"	Professor Vadapalli Chandrasekhar, Centre Director, Tata Institute of Fundamental Research (TIFR) Hyderabad
16th September, 2021	N	Induction Programme  For the newly admitted UG student of Computer Science  Topic: "An open interaction on the perspective of Computing Technology".	Professor P. Nagabhushan  Director, Indian Institute of Information Technology, Allahabad
17th September, 2021	N	Induction Programme  For the newly admitted UG student of Botany  Topic: 'Abiotic Stresses in Agriculture: Impacts and Management'	Dr. H. Pathak  Director, ICAR-National Institute of Abiotic Stress Management (NIASM) Baramati, Pune,

18th September, 2021	N	<p>Induction Programme</p> <p>For the newly admitted UG student of Microbiology</p> <p>Topic: " Opportunities in Microbiology and Life Sciences".</p>	<p>Professor V. M. Katoch</p> <p>Former Director General, Indian Council of Medical Research (ICMR)</p>
19th September, 2021	N	<p>Induction Programme</p> <p>For the newly admitted UG student of Zoology</p> <p>Topic: 'Modern Science and Nation Building'</p>	<p>Dr D.M. Salunke</p> <p>Director, International Centre for Genetic Engineering &amp; Biotechnology</p>
20th September, 2021	N	<p>Webinar on</p> <p>"Gut Microbiome, Brain and Behaviour"</p>	<p>Dr. Amit Ghosh,</p> <p>J.C.Bose Distinguished Professor, National Institute of Cholera and Enteric Diseases (NICED)</p> <p>Formerly Director, Institute of Microbial Technology, Chandigarh &amp; School of Biological Sciences Indian Institute of Advanced Research, Gandhi Nagar, Gujarat</p>
22nd September, 2021	N	<p>Induction Programme</p> <p>For the newly admitted UG student of Physics</p> <p>Topic: A journey</p>	<p>Prof. (Dr.) Dipankar Banerjee,</p> <p>Director, Aryabhata Research Institute of Observational Sciences (ARIES)</p>

		towards our nearest star the Sun	
24th September, 2021	N	Webinar on “Science For All: To Do Cutting- Edge Research at Trifling Cost”	Prof. Raghavendra Gadagkar, DST Chair Professor, Centre for Ecological Sciences, Indian Institute of Science (IISc) Bangalore

### Students’ achievements:

- Sourabh Kundu from Department of Microbiology has successfully completed one-month summer internship on the subject “Single molecule level detection of cisplatin drug treated DNA” under the guidance of Dr. Rupa Mukhopadhyay, senior scientist, Department of Life science, Indian Association for the Cultivation of Science (IACS), Kolkata
- Somnath Roy, Joydip Majumder, and Sohamdeep Chakraborty from Department of Microbiology has successfully completed one-month summer internship training on the subject “**Principles of Computer aided Drug Design**” at NIELT (National Institute of Electronics and Information Technology) Guwahati during 29<sup>th</sup> June to 30<sup>th</sup> July, 2021.
- Anubhab Das, from Department of Microbiology qualify the Young Academy of India’s MentX 2021 programme and doing the internship on “**Laser molecular spectroscopy and imaging methods for fast label-free detection of viruses**” under the guidance of Dr. Mrinal Majumder, Department of Biophysics Manipal School of Life science.
- Koushik Bhattacharya, and Rakesh Ghosh from Department of Microbiology has successfully completed one-month summer internship training on the subject “**Adaptive Evolution in Microbial Genome**” Under the guidance of Prof. Sujoy Chattopadhyaya, head, Center of Health Science and Technology at JIS Institute of Advance Studies and Research, Kolkata

- Arghya Acharya, UG Fifth Semester student and Arya Mukherjee, UG Third Semester student from the Department of Zoology got selected Young Academy of India's MentX programme for doing the internship under Dileep Vasudevan, PhD, Scientist, DBT - Institute of Life Sciences, Bhubaneswar .
- A paper entitled 'Proving inequalities via definite integration: a visual approach' by Nazrul Haque, a Sem VI student of the Dept. of Mathematics has been accepted for publication by The Mathematical Gazette of the Cambridge University Press.
- Sawan Bhattacharya, a Fourth Semester, Computer Science Hons student received the Certificate of Quantum Excellence in 2021 Qiskit Global Summer School on Quantum Machine Learning in the field of Quantum Computing, Quantum Machine Learning which continued from July, 2021 to August, 2021 where he received the highest grade 100/100. He completed the two-week intensive course provided by IBM Quantum, completing all graded lab work assignments with a final cumulative score above 75%, demonstrating applied understanding and comfort with and about Quantum Computing and Quantum Machine Learning using Qiskit.
- Sawan Bhattacharya received the Certificate of achievement for successful completion of two months summer internship at QRD LAB Pvt Ltd during 20/5/2021 to 18/07/2021.
- 18 students of the Second Semester student of the Department of Zoology Devjyoti Mondal, Swapnamoy Chakraborty, Anamitra Sen, Debnath Bid, Kaushik Mitra, Sandip Acharya, Debjyoti Goswami, Akash Roy, Subhamoy Mondal, Tathagata Chowdhury, Pratyush Kumar Datta, Arya Mukherjee, Debabrata Das, Subhagata Ghosh, Akash Chatterjee, Debayan Chakraborty, Rajat Subhra Bhattacharya participated in the Online International Summer Program 2021 Osaka University, Graduate School of Science.
- Arghya Acharya, Sem IV student and Anamitra Sen, Sem II student from the Dept. of Zoology received a Certificate of Appreciation from WWF-India, West Bengal State Office for exceptional performance in a virtual interactive session



for the observation of World Environment Day in a virtual programme on 'Sharing thoughts for Ecological Restoration' on 6<sup>th</sup> June, 2021 on the topics 'Ecological restoration for Wildlife and Biodiversity' and 'Ecological restoration for climate & environment' respectively.

- Koushik Bhattacharya participated a workshop on "Computational Structural Based Screening and Molecular based Dynamics" conducted by Rajiv Gandhi Centre for Biotechnology (RGCB)
- Anamitra Sen, Third Semester student of the Department of Zoology submitted a proposal on the topic 'Non-conventional way of Hydrogen Economy - Hydrogen fuel & car in greener & cost-efficient way' for Nasser Bin Hamad International Youth Creativity Award which has got selected for the judging round.
- Sukriti Maity, a Fifth Semester student in the Department of Zoology has been selected internationally amongst the top 50 candidates to participate in Scientific Illustration Workshop organized by the Centre for Cognitive and Brain Sciences, IIT Gandhinagar.
- Sukriti Maity, a Fifth Semester student in the Department of Zoology has participated in the hands-on training program on NGS & Other large scale biological data analysis conducted by Shodhaka Life Sciences Pvt. Ltd., from 5th June 2021 to 19th June 2021. The training mainly focused on the use of biological databases and tools for mass scale data analysis.
- Sukriti Maity, a Fifth Semester student in the Department of Zoology successfully completed the online quiz with 95% score conducted by Junglemahal Zoological Park, Jhargram held on 1st July 2021 by the Directorate of Forests, Govt. of West Bengal Jhargram Division.
- Many students qualified for the entrance examinations in different M.Sc. and Integrated Ph.D courses in reputed institutions like TIFR, IITs, IISERs, HRI, Kerala School of Mathematics, RKMVERI etc.
- Students of the Department of Computer Science got job placements in various reputed companies like WIPRO, TCS etc.

- **Rishav Kar**, Department of **Microbiology**, got **Young Researcher Award 2021**, organized by Institute of Scholars (INSC) Bengaluru. for his review article Medico Ethnobotanical Effects and Other Health Benefits on Nine Divine Plants of Navapatrika, published in International Journal of Engineering Applied Sciences and Technology, Vol. 5, Issue 3
- **Sayonil Sen**, Department of **Zoology** got the **Second Prize in Online Poster Competition** on Environmental Pollution on 10<sup>th</sup> February, 2021 organised by COHORT Team DS Bengal-Can supported by Switch on Foundation
- **Chandan Bahumik**, our 2018 B.Sc. Mathematics Hons. alumnus, received the **Chairman Board of Governors Gold Medal** after completing M.Sc. in Maths and Computing from **IIT Kharagpur in 2021**
- **Sawan Bhattacharyya** presented his dissertation work on 'Post Quantum Cryptography- A brief survey of classical cryptosystems, their fallacy and the advent of post-quantum cryptography with the deep insight into hashed based signature scheme' done under the supervision of **Dr. Amlan Chakraborti**. AK Chowudhury School of Information Technology, University of Calcutta at **the 5th International Conference on Data Management, Analytics and Innovation (ICDMAI 2021)** on 17<sup>th</sup> January, 2021
- **Inter college competitions as a part of Student Development Program- Date- 5th June, 2021, on the occasion of World Environment Day**  
  
Organized by- Department of Environmental Science, Department of Microbiology, Department of Botany and Department of Zoology, research and guidance cell of Vijaygarh Jyotish Ray College, Kolkata in collaboration with the Science Association of Bengal, Kolkata  
  
Topic- 'Nature and Development go hand in hand'
- **Inter college debate competition** : 1st position secured by: Nirmalendu Mukherjee, Department of Microbiology, RKMVCC Rahara;  
2nd position secured by: Tamonash Debnath, Department of Microbiology, RKMVCC Rahara
- **Inter college quiz competition**; Sandip Acharyya, Dept. of Zoology, RKMVCC Rahara stood 3rd in quiz program organized by Bijoygarh Jyotish Roy college
- **World Environment Day Competitions organized by Alipore Zoo, Kolkata:**  
1. Sandip Acharyya, Dept. of Zoology, RKMVCC Rahara stood 3rd in online quiz contest

2. Abhishek Shyam Chowdhury and Arpan Mondal, Department of Botany stood 3<sup>rd</sup> in poster competition organized by Acharya Brojendra Nath Seal College Cooch behar.

- **Competition on Concept note on Ecological Restoration WWF-INDIA**

Prizes won by our students:

Ecological Restoration for Wildlife and Biodiversity - Arghya Acharyya, Dept. of Zoology, RKMVCC Rahara

Ecological Restoration for Climate and Environment - Anamitra Sen, Arghya Acharyya, Dept. of Zoology, RKMVCC Rahara

Ecological Restoration for Habitat and Home - Mayukh Mitra, Arghya Acharyya, Dept. of Zoology, RKMVCC Rahara

- **PPT Presentation Competition by Team Bengal CAN:**

Mr. Anamitra Sen, Mr. Akash Chatterjee and Mr. Mayukh Mitra students of Ramakrishna Mission Vivekananda Centenary College have secured the winners position for the PPT Presentation competition on 24th April 2021 at Earth Day Competition themed “Restore our Earth” by Team Bengal CAN.

- **Internships:** 5 students from PG section of our College has been selected for summer internship at **INST, Mohali**. They are pursuing their internship at INST Mohali from April-June 2021
- Anamitra Sen from Ramakrishna Mission Vivekananda Centenary College (Autonomous), Rahara, Kolkata has successfully secured COVID-19 Awareness Survey & Research internship at Dr. APJ Abdul Kalam Research Foundation through **Internshala**.
- Anamitra Sen from Ramakrishna Mission Vivekananda Centenary College (Autonomous), Rahara, Kolkata has successfully secured Research (Biologist) internship at FaunaNation (Flora & Fauna Conservation & Development Society) through **Internshala**.

**Workshops organized:**

- Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara organized 14 days' Intradepartmental workshop on **"Biostatistics & Bioinformatics"** by Dr. Sekhar Pal, Asst. Professor, Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara.
- An interdepartmental Workshop on **'How to Write a Review : through Computational Approach'** was organised by Department of Zoology, DBT STAR College with Dr. Ajoy Mallik, Asst. Professor, Department of Zoology, Ramakrishna Mission Vivekananda Centenary College, Rahara as the resource person, for the students of the Department of Botany, Zoology and Microbiology from 9/05/2021 to 20/05/2021 where 159 students enrolled and for the students of the Departments of Physics, Chemistry, Mathematics and Computer Science on the topic **'Review Paper Writing : Processes & Prospects In Future Research'** from 20/09/2021 to 05/10/2021 where 198 students enrolled.

#### **Celebration of 128<sup>th</sup> Anniversary of Swami Vivekananda's Chicago Address:**

An Intra-College Online Essay Competition on the topic 'Significance of Swami Vivekananda's Chicago Address in the Reawakening of India' and Online Extempore Competition on the topic 'Swami Vivekananda's Chicago Address: An Inspiration for me' were organized on 11<sup>th</sup> September, 2021. Swami Urjitananda, Controller of Examinations, Ramakrishna Mission Shikshana Mandira was the special guest for the Online Extempore Competition.

#### **Online Workshops arranged (by the Department of Zoology):**

1) **TOPIC : Mapping & GIS System; DATE:15.02.2021**

Ritam Dutta, Senior Research Fellow, Zoological survey of India, M-Block, New Alipore, Kolkata, Ph.D scholar, University of Madras.



## ***Photosynthesis***

### **Interdepartmental Enrichment Programme:**

Organized Ramakrishna Mission Vivekananda Centenary College, Rahara by under DBT STAR College Scheme

**7th April, 2021 (11am – 4.00pm)**

Dr. Kalayan Brata Chatterjee, Physics, RKMVCC ( Topic :The art of estimation)

Dr. Anirban Kundu, Botany, RKMVCC ( Topic: Protein bioinformatics – Structural dynamics and properties )

Dr. Sougata Sarkar, Chemistry, RKMVCC ( Topic: Chemistry of Buffer Solution)

Dr. Subham Mookherjee, Zoology, RKMVCC ( Topic: Environmental water sources and diarrhea)

Dr. Phonindra Nath Das, Mathematics ( Topic: LaTeX for scientific documentation)

### **Student Publications ( 14 students' publications ):**

Journal	Article	Author
International Research Journal of Modernization in Engineering Technology and Sciences, Vol. 2, Issue 7	Pathogenesis of RNA Virus and Recently Available Therapeutics in Treatment – A Review	Rishav Kar, Kaushik Bhattacharya  Dept of Microbiology
International Journal of Engineering Applied Sciences and Technology, Vol. 5, Issue 3	Medico Ethnobotanical Effects and Other Health Benefits on Nine Divine Plants of Navapatrika	Rishav Kar  Dept of Microbiology
International Journal of Scientific Research in Engineering and Management, Vol. 4, Issue 8	Molecular Inhibitor for Inhibiting Breast Cancer – A path other than surgery	Nobendu Mukherjee  Dept of Microbiology

International Journal of Science and Research (IJSR)	Polycystic Ovary Syndrome (PCOS) Symptoms, Causes & Treatments – A Review	Nobendu Mukherjee Dept of Microbiology
International Journal of Research	Neuroimaging & Other Biomarkers For Alzheimer's Disease – a brief review	Nobendu Mukherjee
Cancer Research Journal	Uses Of R.O.S.(H <sub>2</sub> O <sub>2</sub> ) In Nano-robot Technology : For Aggressive Cancer Treatment Without Side Effects	Arghya Acharyya Dept. of Zoology
International Journal of Research in Engineering and Science (IJRES) vol. 8, Issue 10.	A Brief Glimpse on Advancement of CRISPER/Cas in Research	Nobendu Mukherjee Dept. of Microbiology
International Journal of Science and Research (IJSR)	A Brief Review on the Overview on Immunology of COVID-19: Current State of the Research	Nobendu Mukherjee Dept. of Microbiology
International Journal of Pharmaceutical Research and Applications (IJPRA) Vol. 6, Issue 1	Analysis of Potentiality and Anti-Tumour activity of Cap in cancer treatment	Nobendu Mukherjee, Dept. of Microbiology
Ambient Science, 2021: Vol. 08(1); 39-40	First Report of Geocoris (Geocoris) lituratus (Geocoridae: Hemiptera) as Egg Predator of Graphium agamemnon (Papilionidae: Lepidoptera) in Urban Landscape, West Bengal	Dipak Shil, Amarttya Bagchi , Prachyaprachetah Sarkar, Dept. of Zoology
Rejoy Chakraborty, Arpan Bairagi and Prof. Samir Kumar	Design and implementation of Two Layer Encryption	International Journal of Scientific Development and

Bandyopadhyay	System in Cryptography	Research - IJSDR [ISSN: 2455-2631]
Arpan Bairagi, Rejoy Chakraborty, Shree Mitra and DR. Soumya Paul	A Novel Approach for Searching an Element in a Sorted Array – Log Search	International Journal of Information Science and Computing [Print ISSN: 2348-7437 & Online ISSN: 2454- 9533]
Soumen Halder and Anubrata Das	IoT on E-Health: Application and Security Challenges	International Journal of Information Science and Computing [Print ISSN: 2348-7437 & Online ISSN: 2454- 9533]
Soumen Halder and Prof. Samir Kumar Bandyopadhyay	A Smart Application of IoT for Green Environment	International Journal for Research in Applied Science & Engineering Technology - IJRASET [ISSN: 2321-9653]
Soumen Halder, Arkadip Maitra and DR. Soumya Paul	Comparative study of Different Data Science Classification Algorithms	Information, Communications and Computation Technology (ICCT): The Pillar for Transformation by New Delhi Publisher [ ISBN: 978-93-88879-95-8 ]

### Special Achievements and Certifications



Special certificate to the college ( 31 certificate or recognition received from national and international bodies):

Sl. No.	Purpose	Authority	Date
1	Jal Shakti Abhiyan : Catch The Rain”	National Water Mission & MyGov. in	17/04/2021
2	The Festivals of India	MyGov Manipur	17/04/2021
3	Wetland Management and Biodiversity Conservation	Govt of India	13/06/2021
4	International Day of Yoga	Ministry of Ayush MoA, Govt. Of India	13/06/2021
5	Clinical management of patients with COVID 19:  Initial approach to the acutely ill patient	World Health organization	16/06/2021
6	COVID-19 and work: Staying healthy and safe at work during the COVID-19 pandemic	World Health organization	16/06/2021
7	Guidance on mask use in the context of COVID 19	World Health organization	16/06/2021
8	COVID-19 vaccine-specific resources	World Health organization	16/06/2021
9	Health and peace: Concepts and tools for frontline workers	World Health organization	16/06/2021
10	Prevention, identification and management of infections in health workers in the context of COVID 19	World Health organization	16/06/2021
11	Introduction to Infection Prevention & Control (IPC)	World Health organization	16/06/2021

12	Leadership and programme management in Infection Prevention and Control (IPC)	World Health organization	16/06/2021
13	Standard precautions: The role of personal protective equipment (PPE)	World Health organization	16/06/2021
14	Transmission-based Precautions	World Health organization	16/06/2021
15	COVID-19 infodemic management: risk communication and community engagement challenges	World Health organization	16/06/2021
16	Clinical management of patients with COVID-19  - Rehabilitation of patients with COVID-19	World Health organization	16/06/2021
17	COVID-19 vaccination training for health workers	World Health organization	16/06/2021
18	Neglected tropical diseases in the context of the COVID 19 pandemic: impact and guidance	World Health organization	16/06/2021
19	Orientation to national deployment and vaccination planning for COVID-19 vaccines	World Health organization	16/06/2021
20	Clinical management of patients with COVID-19 - General considerations	World Health organization	17/06/2021

**Recognition received by the college:**

<b>Agency</b>	<b>Area</b>	<b>Date</b>
UNICEF	Centre of Eminence in MANAGEMENT INFORMATION SYSTEM of the Institution	03.09.2021
UNICEF	Centre of Excellence in Capability Enhancement and Development Schemes	03.09.2021
UNICEF	Playing active role in setting up INCUBATION CENTRES and START- UPS	03.09.2021
UNICEF	RKMVCC-Rahara-NSS for commendable efforts in various service activities conducted in rural villages	03.09.2021
UNICEF	RKMVCC-Rahara-Alumni for commendable efforts in relief work during the COVID-19 pandemic	03.09.2021
UNICEF	Swami Vivekananda Centre for Multidisciplinary Research in Basic Science and Social Science , as a “Centre of Excellence in	01.08.2021

	Research and Education for Social Transformation”	
Stanford University School of Medicine	Swami Vivekananda Centre for Multidisciplinary Research in Basic Science and Social Science , as a “Centre of Excellence in Research and Education for Social Transformation”	01.08.2021
UNICEF	Centre of Eminence in Online teaching and learning	30.7.2021
UNICEF	Centre of Excellence in Environmental Management and Green Management	30.7.2021
UNICEF	Centre of Excellence in Energy Management and Conservation	30.7.2021
UNICEF	Centre of Eminence in Green Building Audit	20.08.2021

### **Other Activities**

#### **Corona Relief:**

On the very outset of the complete Lockdown, the research scholars, teachers and resident staff-members of the college has prepared the Hand Sanitizer as part of the relief work conducted by Ramakrishna Mission Head Quarter, for the use by vendors of

the local market, Police persons, bank employee, Electric supply employee, post office employee and other persons, preferably those who are working on the forefront during pandemic situation.

During the complete lockdown, the college has started the distribution of the food grains, vegetables, cereals, edible oil and soap to our nearby adopted village to mitigate the plight of villagers during complete lockdown.

After that, relief camp of distribution of the food grains, vegetables, cereals, edible oil and soap started in several corners of the state like Hasnabad, Madhyamgram, Kalyani and several villages of Sunderban area.

Our ex-students also started several initiatives for the poor villagers, slum dwellers in different districts of West Bengal.

#### **Free Eye Operation Camp :**

An Eye screening and cataract patient selection for surgery was conducted by the College on 3rd February, 2021 from at 11 am. in collaboration with Vivekananda Mission Ashrama Netra Niramay Niketan, Amtala, South 24 Parganas. A total of 145 patients were screened and 39 patients (Female-24, Male- 15) underwent Free cataract operation on 10th February, 2021. Operation was held at the concerned Eye Hospital at Amtala. 67 free power eye glasses were distributed.

#### **Saraswati Puja**

Saraswati Puja was celebrated in the college with due solemnity on 16<sup>th</sup> and 17<sup>th</sup> February, 2021

#### **National Youth Day Competitions:**

An Intra-College Online Art Competition on the topic 'Swami Vivekananda-An Inspiration' was organized in the College on 12<sup>th</sup> January, 2021. Online Essay Competition on the topic 'Swami Vivekananda and the Rise of India' and Online Extempore Competition on the topic 'Why do I admire Swami Vivekananda' were also organized on 12<sup>th</sup> January, 2021.

The list of winners are as follows:

#### **Extempore Competition:**

Name	Rank
Rohan Ghosh	1st
Kousik Bhattacharya	2nd

<b>Jaidip Patra</b>	<b>2nd</b>
<b>Saptak Das</b>	<b>3rd</b>
<b>Swarnava Chatterjee</b>	<b>3rd</b>

#### **Essay Competition:**

<b>Name</b>	<b>Rank</b>
<b>Sutanu Mukhopadhyay</b>	<b>1st</b>
<b>Koushik Mitra</b>	<b>2nd</b>
<b>Ahan Roy</b>	<b>2nd</b>
<b>Anubhab Jana</b>	<b>3rd</b>
<b>Nirmalendu Mukherjee</b>	<b>3rd</b>

#### **Art Competition:**

<b>Name</b>	<b>Rank</b>
<b>Ramit Mitra</b>	<b>1st</b>
<b>Ahan Roy</b>	<b>2nd</b>
<b>Pratyay Chakraborty</b>	<b>2nd</b>
<b>Pinaki Ghosh</b>	<b>3rd</b>
<b>Siddhartha Das</b>	<b>3rd</b>

#### **National Youth Day celebration:**

The college has organized the National Youth Day celebration on 12.02.2021 in the Barasat, Subhas Gram area. About 150 local school students have participated in this program. They have participated in essay competition, elocution competition, music competition in the life and message of Swamiji.

#### **Blanket Distribution in Barasat Madhyamgram:**

As part of the NSS work, the college has organised a service activity in Barasat area, 24- parganas (north) with the help of the local people on 28.12.2020. Blankets and mosquito nets were distributed to 60 poor people of the locality.

#### **Yas Cyclone Relief Activities:**

The NSS Unit of the college was engaged in various service activities in the Yas cyclone affected Sunderbans and coastal areas. Dry food, rice, dal, soyabean, mustard oil, vegetables, medicine, baby food to 230 families, 50 clothes, Rs 500 to two families were distributed in those areas.

#### **NIRF Ranking-2019:**

The National Institutional Ranking Framework (NIRF) of MHRD ranked our College **8<sup>th</sup> in India** and **1st in West Bengal** In the year 2019