

**THE ANNUAL QUALITY ASSURANCE REPORT (AQAR)  
OF THE  
INTERNAL QUALITY ASSURANCE CELL OF  
RAJA PEARY MOHAN COLLEGE  
2008-2009**

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**NAME OF THE INSTITUTION:**

**RAJA PEARY MOHAN COLLEGE, UTTARPARA.**

1, Acharya Dhruva Pal Road,

P.O: Uttarpara, Dist: Hooghly,

West Bengal

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**YEAR OF REPORT: 2008-2009**

**PART A**

**Planned to achieve at the beginning of 2008-2009**

- **BUILDING EXPANSION:** There is a definite plan for building expansion with specific impetus on renovating the old building of the college for which finances are sought from UGC.
- **Full LAN implementation** Connecting all Departments and office and Library is on
- **Library Automation**
- **Audio-Visual Mode of Teaching for all Departments**
- **E-Journal Subscription**
- **A National Level Seminar by the Social Science Departments Sponsored by UGC (APPLIED FOR GRANT)**

### **Achievements at the end of the year 2008-2009:**

- **BUILDING EXPANSION: UGC has allocated grant for building and a plan for building expansion with specific impetus on renovating the old building of the college are submitted for sanction of funds.**
- **Renovation and expansion of the Department of Botany**
- **Replacements of all old blackboards of all the classrooms with green glass boards**
- **Full LAN implementation Connecting all Departments and office and Library**
- **Library Automation is on.**
- **Audio-Visual Mode of Teaching for all Departments**
- **E-Journal Subscription— Process for subscription is on going**
- **Installation of a 30 k v Generator for Continuous and uninterrupted power supply**
- **The Social Science Departments are organizing a National Level Seminar on "India: The Country & The State in Historical Perspective" Sponsored by UGC on 5<sup>th</sup> and 6<sup>th</sup> February 2010**
- **Admission Through website apart from the existing old system has started from 2008-2009**
- **Full computerization of student's records (Admission, Results, Attendance etc.)**
- **Full Computerization of all financial records of the College is on.**
- **More books on the current syllabus and reference books on all subjects are purchased for the central library.**
- **Equipments that are more modern are purchased for five laboratory-based subjects and computers for computer based subjects.**

- **Arrangements are made to open the Remedial Coaching and Coaching into entry service cell for socially and financially backward students Funded by UGC.**
- **Career Counseling Cell of the college is now approved and funded by UGC**
- **There are two ongoing Major Research Projects funded by DST and ISRO**
- **Ten Minor Research Projects Funded by UGC is presently carried out by different faculty members.**

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## **PART B**

### **1. ACTIVITIES REFLECTING THE GOALS AND OBJECTIVES OF THE INSTITUTION**

#### **The goal of the institution is**

- ❖ **Emerge as one of the finest academic institutions for Teaching and Research.**
- ❖ **To excel as a higher education center for Humanities, Commerce and Science streams.**
- ❖ **To cater higher education to financially weaker section of the people of rural and urban areas of the urban areas of the districts of Hooghly, Howrah and North 24-Parganas in West Bengal.**
- ❖ **To spread female education, especially to a socio-economically backward population.**
- ❖ **To provide opportunity of higher education to adult earning students.**
- ❖ **To excel as one of the most reputed centre for social and cultural activity.**

Keeping these objectives in mind, the various activities during the period July 2008 – June 2009 to assure quality improvement of the college are enumerated as below:

**[I] TOTAL NUMBER OF WORKING DAYS IN THE ACADEMIC YEAR,  
JULY '08 – JUNE '09**

MONTH & YEAR	NO. OF DAYS	SUNDAYS	HOLIDAYS/CLASS SUSPENDED	WORKING DAYS
July '08	31	4	--	27
Aug '08	31	5	1	25
Sep '08	30	4	3	23
Oct '08	31	4	26*	1
Nov '08	30	5	4	21
Dec '08	31	4	9**	20
Jan '09	31	4	7	20
Feb '09	28	4	1	23
Mar '09	31	5	4	22
April '09	30	4	4	22
May '09	31	5	16***	10
June '09	30	4	6	20****

\* Puja Holidays; \*\* Winter Recess; \*\*\* Summer Recess; \*\*\*\* Admission Process

**Detailed list of Holidays/class suspended are given in the Academic Calendar.**

**Total No. of working days in Academic Year, July 2008 - June 2009 = 236**

**[II] ADMISSION OF 2008-2009****ADMISSION****2008-2009**

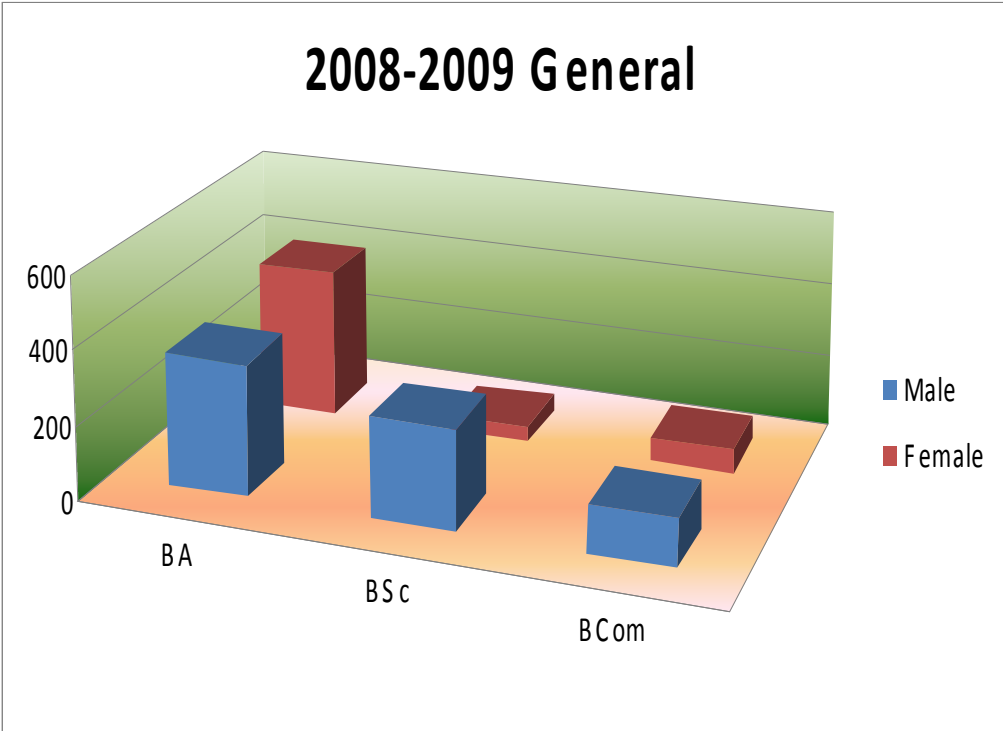
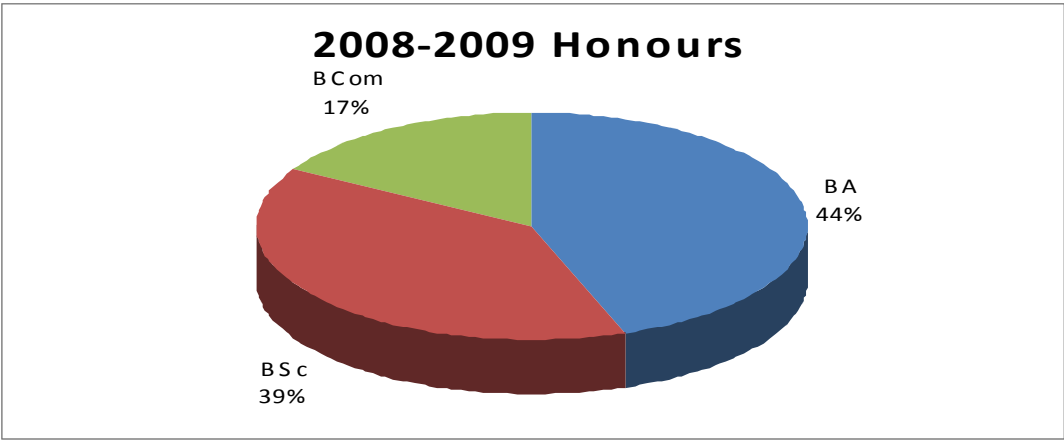
<b>HONOURS COURSE</b>												
		<b>MALE</b>					<b>FEMALE</b>					
<b>COURSE HONS</b>	<b>NO. OF SEATS</b>	<b>Gen</b>	<b>SC</b>	<b>ST</b>	<b>OBC</b>	<b>TOTAL</b>	<b>GEN</b>	<b>SC</b>	<b>ST</b>	<b>OBC</b>	<b>TOTAL</b>	<b>GRAND TOTAL</b>
<b>B A</b>	<b>175</b>	<b>79</b>	<b>9</b>	<b>1</b>	<b>----</b>	<b>89</b>	<b>108</b>	<b>8</b>	<b>1</b>	<b>----</b>	<b>117</b>	<b>206</b>
<b>B SC (Pure)</b>	<b>150</b>	<b>87</b>	<b>1</b>	<b>1</b>	<b>----</b>	<b>89</b>	<b>31</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>31</b>	<b>120</b>
<b>B SC (Biological Sciences)</b>	<b>52</b>	<b>23</b>	<b>3</b>	<b>--</b>	<b>1</b>	<b>27</b>	<b>45</b>	<b>4</b>	<b>--</b>	<b>---</b>	<b>49</b>	<b>76</b>
<b>B COM</b>	<b>60</b>	<b>58</b>	<b>14</b>	<b>1</b>	<b>---</b>	<b>73</b>	<b>4</b>	<b>2</b>	<b>---</b>	<b>---</b>	<b>6</b>	<b>79</b>
<b>Total</b>	<b>437</b>	<b>247</b>	<b>27</b>	<b>3</b>	<b>1</b>	<b>278</b>	<b>188</b>	<b>14</b>	<b>1</b>		<b>203</b>	<b>481</b>

**GENERAL COURSE**

<b>GENERAL COURSE</b>												
		<b>MALE</b>					<b>FEMALE</b>					
<b>COURSE GENERAL</b>	<b>NO. OF SEATS</b>	<b>Gen</b>	<b>SC</b>	<b>ST</b>	<b>OBC</b>	<b>TOTAL</b>	<b>GEN</b>	<b>SC</b>	<b>ST</b>	<b>OBC</b>	<b>TOTAL</b>	<b>GRAND TOTAL</b>
<b>B A</b>	<b>250</b>	<b>126</b>	<b>14</b>	<b>1</b>	<b>---</b>	<b>131</b>	<b>131</b>	<b>3</b>	<b>1</b>	<b>----</b>	<b>135</b>	<b>276</b>
<b>B SC (Pure)</b>	<b>200</b>	<b>29</b>	<b>1</b>	<b>---</b>	<b>---</b>	<b>30</b>	<b>4</b>	<b>---</b>	<b>---</b>	<b>1</b>	<b>5</b>	<b>35</b>
<b>B SC (Biological Sciences)</b>	<b>180</b>	<b>44</b>	<b>3</b>	<b>--</b>	<b>---</b>	<b>47</b>	<b>15</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>16</b>	<b>63</b>
<b>B COM</b>	<b>100</b>	<b>42</b>	<b>9</b>	<b>--</b>	<b>--</b>	<b>51</b>	<b>4</b>	<b>--</b>	<b>--</b>	<b>-</b>	<b>4</b>	<b>55</b>
<b>Total</b>	<b>730</b>	<b>241</b>	<b>27</b>	<b>1</b>	<b>--</b>	<b>208</b>	<b>154</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>160</b>	<b>429</b>

**Distribution of students in the 2008-2009 (1st, 2<sup>nd</sup> & 3<sup>rd</sup> year)**

<b>Sl</b>	<b>YEAR</b>	<b>TOTAL</b>
1	B A	<b>1293</b>
2	B. SC	<b>421</b>
3	B. COM	<b>771</b>

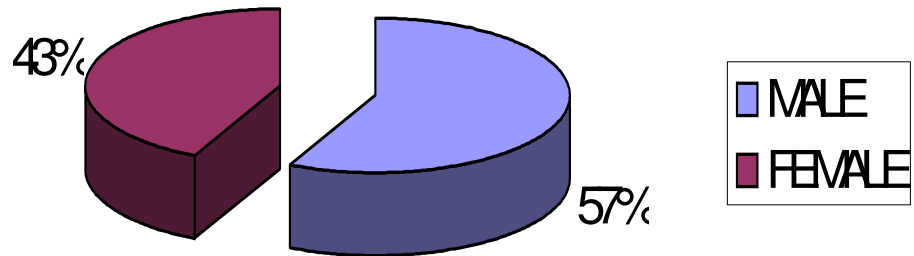


**MALE-FEMALE RATIO:**

**NUMBER OF MALE AND FEMALE STUDENTS IN THE YEAR 2008-2009**

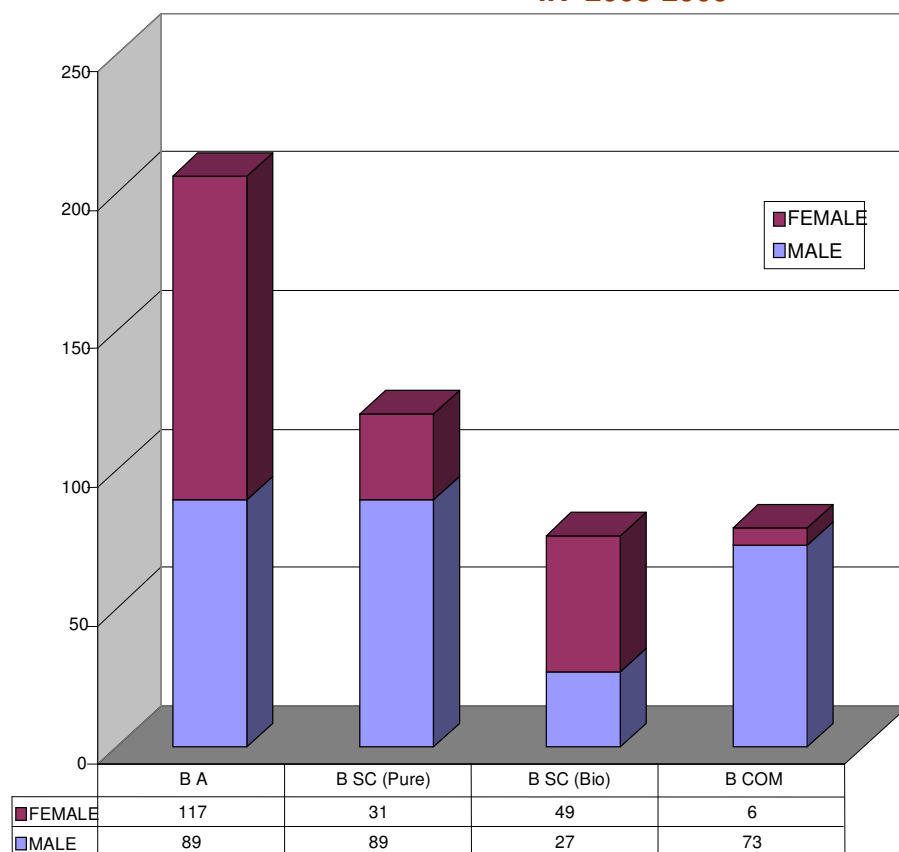
SI	YEAR	MALE	FEMALE	TOTAL
1	2008-2009	1423	1062	2485

### MALE-FEMALE RATIO 2008-2009



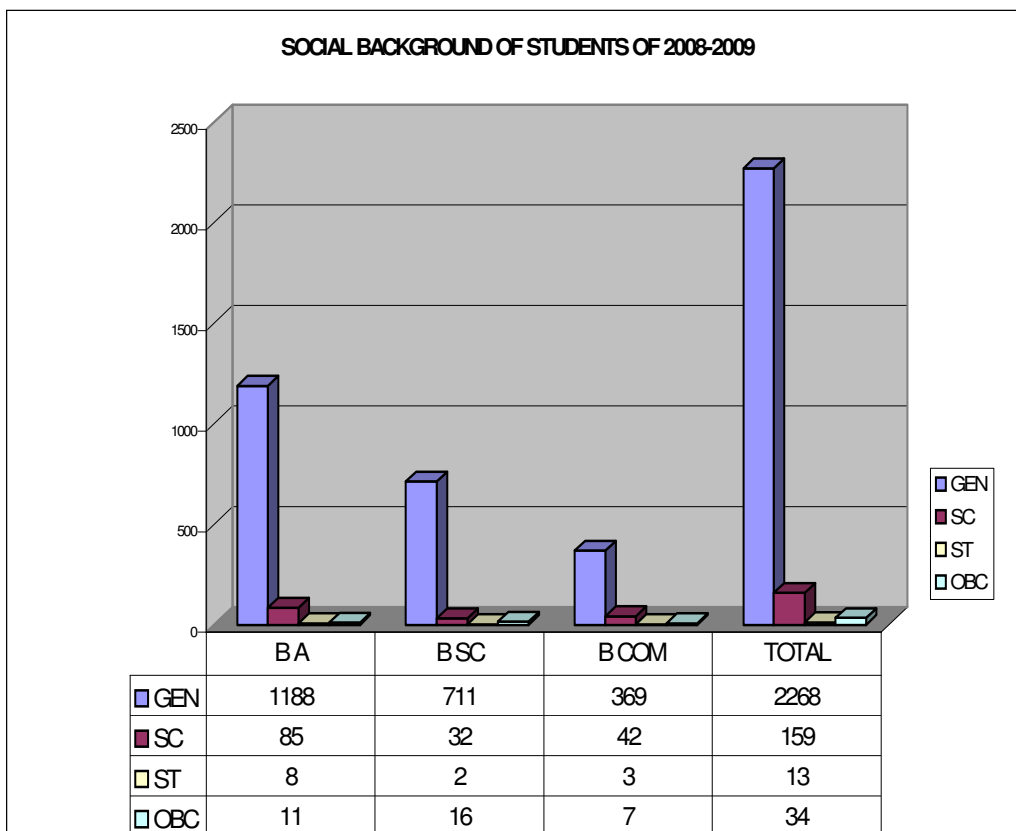


## B A/ B SC/ B COM (HONOURS) MALE FEMALE ADMITTED NUMBERS IN 2008-2009

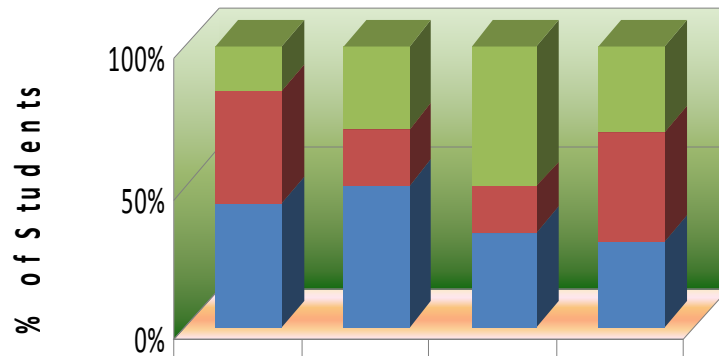


SI	YEAR	SC	ST	OBC	TOTAL
1	2008-2009	159	14	34	207

**NUMBER OF SC, ST AND OBC STUDENTS IN 2008-2009**

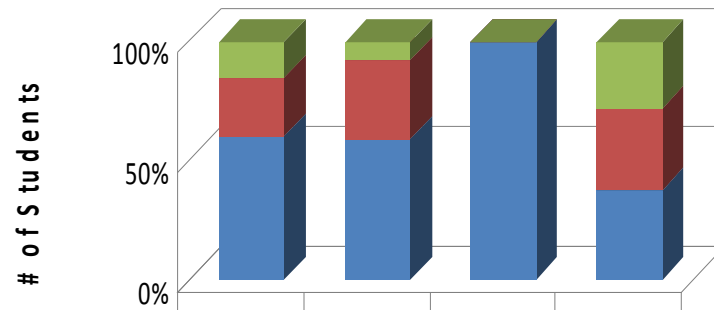


## 2008-2009 Honours



	Gen	SC	ST	OBC
■ BCom	172	24	3	3
■ BSc	449	16	1	4
■ BA	491	41	2	3

## 2008-2009 General



	Gen	SC	ST	OBC
■ BCom	179	6	0	6
■ BSc	280	24	0	7
■ BA	696	44	7	8

**STUDENTS STRENGTH DURING THE SESSION 2008 – 2009**

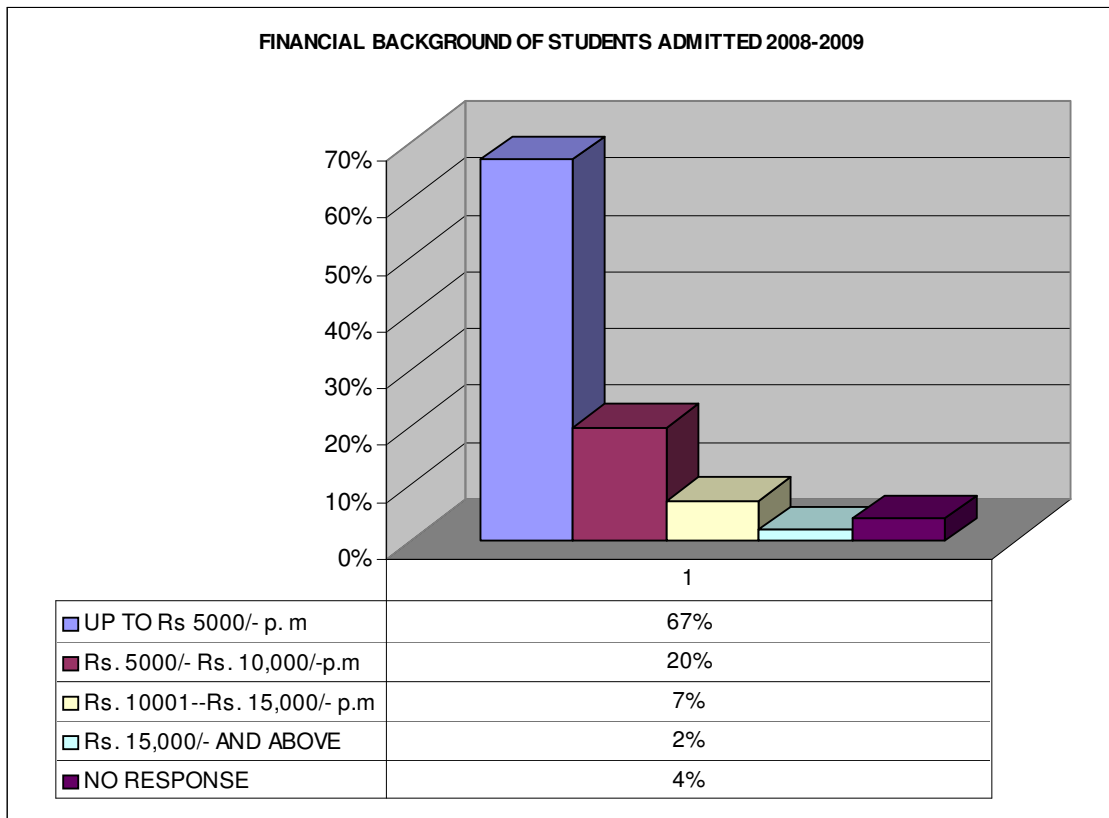
	<b>H. (M)</b>	<b>H. (F)</b>	<b>G (M)</b>	<b>G. (F)</b>	<b>H. S / C ( M )</b>	<b>H. S / C ( F )</b>	<b>H. S / T ( M )</b>	<b>H. S / T ( F )</b>	<b>H. OB C (M)</b>	<b>H. OB C (F)</b>	<b>G. S / C ( M )</b>	<b>G. S / C ( F )</b>	<b>G. S / T ( M )</b>	<b>G. S / T ( F )</b>	<b>G. OB C (M)</b>	<b>G. OB C (F)</b>	<b>TOT AL HON S.</b>	<b>TOT AL GEN ERA L</b>	<b>TOTA L NO. OF STUD ENTS</b>
<b>1st. Year B.A.</b>	79	108	126	131	9	8	1	1	---	---	14	3	1	1	---	---	206	276	482
<b>2nd Year B.A.</b>	59	119	153	175	10	11	-- -	-- -	1	---	14	10	-- -	4	2	3	200	361	561
<b>3rd Year B.A.</b>	30	97	38	73	2	1	-- -	-- -	2	---	3	-- -	1	-- -	1	2	132	118	250

<b>Tota l</b>	<b>16 8</b>	<b>32 4</b>	<b>31 7</b>	<b>37 9</b>	<b>2 1</b>	<b>2 0</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>---</b>	<b>3 1</b>	<b>1 3</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>538</b>	<b>755</b>	<b>1293</b>
1st Year B.Co m.	58	4	42	4	14	2	1	--	---	---	9	--	--	--	---	---	79	55	134
2nd Year B.Co m.	47	8	89	13	3	1	--	--	2	---	9	--	--	--	2	1	61	114	175
3rd Year B.Co m.	43	12	35	14	4	--	2	--	---	1	--	--	--	--	1	---	62	50	112
<b>Tota l</b>	<b>14 8</b>	<b>24</b>	<b>16 6</b>	<b>31</b>	<b>2 1</b>	<b>3</b>	<b>3</b>	--	<b>2</b>	<b>1</b>	<b>1 8</b>	--	--	--	<b>3</b>	<b>1</b>	<b>202</b>	<b>219</b>	<b>421</b>
1st Year B.Sc. (Pure	87	31	29	4	1	--	1	--	---	---	1	--	--	--	---	1	120	35	155

)																			
2nd Year B.Sc. (Pure )	79	23	31	4	3	--	--	--	---	1	2	--	--	--	1	---	108	38	146
3rd Year B.Sc. (Pure )	48	14	13	2	--	--	--	--	2	---	2	1	--	--	1	---	64	19	83
1st Year B.Sc. (Bio)	23	45	44	15	3	4	--	--	1	---	3	1	--	--	---	---	76	63	139
2nd Year B.Sc. (Bio)	27	33	45	17	4	4	--	--	2	1	1	1	--	--	2	1	71	67	138

3rd Year B.Sc. (Bio)	15	24	33	25	1	--	--	1	---	---	--	--	--	--	1	2	41	61	102
<b>otal</b>	<b>27</b>	<b>17</b>	<b>19</b>	<b>67</b>	<b>1</b>	<b>8</b>	<b>2</b>		<b>5</b>	<b>2</b>		<b>6</b>	--	--	<b>5</b>	<b>4</b>	<b>488</b>	<b>283</b>	<b>771</b>
<b>9</b>	<b>0</b>	<b>5</b>		<b>2</b>									<b>-</b>	<b>-</b>					
Gran d Total	595	518	678	477	53	31	5	2	10	3	58	16	2	5	11	10	1228	1257	2485

## FINANCIAL BACKGROUND OF STUDENTS: 2008-2009



**# Economically Backward:** At present according to the government of West Bengal Available data of 2005 & 2005 there are about 22% people who live below the poverty line in the Hooghly District where Raja Peary Mohan College is located. Many students who are enrolled in this college come from a background where the family income is below Rs 5000 per month. The data, which are gathered, is from the information that the students give in the admission form during the time of their admission. But we do not have any data regarding students who hold BPL Card. Every year the college authority receives about 300 to 350 applications from the admitted students to waive their college tuition fees whose family income is below Rs 2000/- to Rs 3000/- per month. They even earn themselves by working at nightshift or giving tuitions to other small children. The college authority after verifying the applications with the help of students union and teaching



and non-teaching staff waive about 70-100 (Ist, IInd & IIIrd year) students tuition fees of the Students of the B A,, B Sc and B.COM Stream on merit-cum-means basis from their own limited internal resources. List of the names, roll no. of the students and amount of tuition fees waived for the year 2007-2008 and 2008-2009 is attached with this enclosure. From the next the year the college will take initiative to identify students who lie below the poverty line and will take measures according to that

### **[III] UNIT COST OF EDUCATION: 2008-2009**

ANNUAL EXPENDITURE OF THE COLLEGE FOR THE YEAR **2008-2009**.

SL. NO.	HEAD OF A/C	TOTAL EXPENSES (Rs)
01.	Academic purposes	50,000.00
02.	Audit Fee	15,000.00
03.	Book Binding	3,000.00
04.	Building	5,50,000.00
05.	Centenary Hall	70,000.00
06.	College Central Computer and Xerox machine	76,000.00
07.	College Examination	75,000.00
08.	Contingency	30,000.00
09.	C.U and Council Examination, Registration, Migration, PPS etc.	13,50,000.00
10.	Educational Excursion	75,000.00
11.	Electricity (general) except Centenary Hall	2,25,000.00
12.	Furniture and Fixtures	2,00,000.00

13.	Games and Sports (including related refreshments)	25,000.00
14.	Health, Environment and Social Service	25,000.00
15.	Insurance	1,313.00
16.	Interest on O/D	1,00,000.00
17.	Laboratory apparatus/Equipments (including maintenance)	1,15,000.00
18.	Laboratory Chemicals/Solvent oils/Gas etc.	95,000.00
19.	Lab. Materials/glass goods/stationary/party expenses	75,000.00
20.	Laboratory specimen	40,000.00
21.	Labour charges	35,000.00
22.	Law suit and Lawyer's honorarium	5,000.00
23.	Library Books	2,80,000.00
24.	Management expenses	30,000.00
25.	Municipal Tax	5,000.00
26.	IQAC& Website Maintenance	50,000.00
27.	Office Expenses	30,000.00
28.	Plan expenditure other than building	50,000.00
29.	Postages (including revenue stamp other than salary purpose)	2,000.00
30.	Printing and Outside Xerox (general other than College exam)	60,000.00
31.	Refund	83,500.00
32.	Remuneration	7,58,200.00
33.	Sanitation	10,000.00
34.	Service charges paid to N.T.S	20,000.00

35.	Settlement of Outstanding claims	2,00,000.00
36.	Special term deposit (S.T.D)	20,00,000.00
37.	Students Health Home (S.H.H)	8,616.00
38.	Students' Union (S.A.F and S.U.F)	1,42,164.00
39.	Subscriptions/Donations etc.	3,500.00
40.	Subsidy	18,000.00
41.	Telephone/Internet Expenses	40,000.00
42.	Traveling Allowances (T.A)	50,000.00
43.	UGC-Job Course	3,00,000.00
44.	ISRO expenses	3,75,000.00
45.	Advance (other than salary)	1,00,000.00
46.	MRP expenses	1,50,000.00
47.	Generator(New Purchase)	1,50,000.00
48.	Various/Miscellaneous Expenses	50,000.00
	<b>Total</b>	<b>96,37,828.37</b>

**CALCULATED UNIT COST OF EDUCATION in 2008-2009** [Annual Expenditure of 2008-2009 (given as above) divided by the total number of students in the year 2008-2009 (whose total number is 2485)]: **Rs. 3878.40**

#### **[IV] BUILDING EXPANSION:**

##### **RECENT INFRASTRUCTURAL DEVELOPMENTS**

- Expansion and Renovation of the department of Botany
- Renovation and remodeling of Room for Remedial Coaching and Coaching for Entry Service Cell for SC, ST, OBC, Minorities and Financially Backward students.
- Renovation and remodeling of room for Career and Counseling Cell

- Renovation and remodeling of The College Auditorium
- Renovation of Room for NSS Unit and Eco-Club and
- Renovation of Room for Alumni Association

### **[V] TECHNICAL UPGRADATION:**

Some technical up gradation was also undertaken to keep up with the ever-changing scenario of technological evolution.

- **Full LAN implementation Connecting all Departments and office and Library**
- **Library Automation is on. Computers for students for browsing and access to the stock of books in the Main Library through LAN with Customized software are projects, which are in the pipeline. Internet facilities will also be made available to them after installation of LAN.**
- **Audio-Visual Mode of Teaching for all Departments**
- **E-Journal Subscription— Process for subscription is on going**
- **Installation of a 30 k v Generator for Continuous and uninterrupted power supply**
- **Admission Through website apart from the existing old system has started from 2008-2009**
- **Full computerization of student's records (Admission, Results, Attendance etc.)**
- **Full Computerization of all financial records of the College is on.**
- **More Computer access is available to the Students of computer science, Physics, Mathematics, & Commerce**
- **The arrangement of computer in the other department is in the process through LAN.**
- **The authority will arrange training for the office and Library staff after installation of LAN to enable them to learn the handling of customized software**

**[V] JOB COURSE:****JOB COURSE:**

Six career-oriented courses have been introduced as suggested by the NAAC Peer Team. The courses are funded by UGC for which 12 lakhs (7 lakhs for Science stream and 5 lakhs for commerce stream) have been sanctioned.

<b>NAME OF THE COURSE</b>	<b>COURSE CO-ORDINATOR</b>
<b>COURSES BELONGING TO THE SCIENCE STREAM</b>	
i) Medical Laboratory Technology.	Dr. Bitanbindu Bandyopadhyay
ii) Fishery Management	Sri Uday Sankar Hazra
iii) Information & Computer Technology	Dr. Shyamal Chakraborty.
<b>COURSES BELONGING TO COMMERCE STREAM</b>	
v) Banking	Dr. Jyotish Prakash Basu
vi) Tax Practice Procedure	Sri Sudhin Kumar Bera
iv) E - Commerce	Sri Anupam Mitra

**NATURE OF COURSE:** 1 year Certificate Course / 6 disciplines

**SYLLABUS:** Prepared by College Faculty & Co-ordinators.

**ADMISSION:** From July every year

**NATURE OF COURSE:** 1 year Certificate Course / 6 disciplines

**SYLLABUS:** Prepared by College Faculty & Co-ordinators.

**ADMISSION:** From July every year

**NO. OF STUDENTS PER COURSE:** 20 students per course. Each course will be of 30 credits of which 10 credits will be assigned to fieldwork / Project

**STUDENTS IN THE SESSION 2008-09**

- MEDICAL LABORATORY TECHNOLOGY: 30
- E – Commerce: 2
- Information & Computer Technology: 3

**[VI] RESEARCH ACITIVITIES:**

**MAJOR RESEARCH PROJECTS**

**ONGOING MAJOR RESEARCH PROJECT:**

- 1. Project ongoing: A study on variability of post-sunset total electron content and scintillation near the crest of the equatorial anomaly in the Indian zone**

**Under Indian Space Research Organization RESPOND program, Department of Space, Government of India.**

**a) Duration : 3 years**

**b) Amount sanctioned: Rs 9.43 lakhs**

**c) Present status: Started on April'09 and continuing**

**Objectives of the ongoing project:**

Ionospheric Total Electron Content (TEC) and scintillation are two major aspects of the International Space Weather scenario. In the present proposal a large volume (1977-90) of archived database of TEC and VHF/UHF scintillation in the post sunset period will be utilized to develop an improved forecasting capability of ionospheric scintillation near the equatorial anomaly crest. Day-to-day variability of TEC and scintillation (VHF/UHF) observed from a location, Calcutta,

near the equatorial ionization anomaly crest of the Indian longitude zone will be combined with the variability of the F-layer base height near the magnetic equator in the post sunset period to generate an empirical formula and a forecast model of scintillation occurrences. Efforts will be made to identify a suitable electrojet index which may be considered as precursor to scintillation phenomenon. Long period of database involved a large number of disturbed days. Scintillation and TEC databases for the disturbed days along with  $D_{st}$ , AE and  $B_z$  indices, and DMSP ion density data will be integrated to develop a concise picture of the Indian low-latitude ionosphere during geomagnetic disturbances. As the data period includes large number of disturbed days at various levels of solar as well as geomagnetic activities – the results of observation will potentially be employed to improve the predictive capabilities of the geomagnetic storm effects on the ionosphere near the equatorial anomaly crest.

Name of the Principal Investigator with designation	Department	Name of the Research Project	Funding Agency	Amount	Duration
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<b>Dr Shyamal Kumar Chakraborty</b> Reader in Physics	<b>Department of Physics</b>	<b>A study on variability of post-sunset total electron content and scintillation near the crest of the equatorial anomaly in the Indian zone"</b>	<b>Under Indian Space Research Organization <u>RESPOND</u> program, Department of Space, Government of India</b>	<b>Rs 9.43 lakhs</b>	<b>Three years 2009-2012</b>
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**MINOR RESEARCH PROJECTS  
ON GOING**

<b>NAME OF THE TEACHER</b>	<b>NAME OF THE PROJECT</b>	<b>DURATION</b>	<b>FUNDING AGENCY</b>	<b>YEAR OF GRANT</b>
<b>Dr. Anindita Mandal (Majee)</b> Reader (Dept. of Physiology)	Cardio-Vascular and respiratory status of workers engaged in different industries and occupation in West Bengal	18 Months	UGC	2009
<b>Dr Amal Chandra</b>	Role of monoamine neurotransmitters in	18 Months	UGC	2009



<b>Mondal Lecturer (Dept. of Physiology)</b>	learned helplessness behaviour and depression in rat model			
<b>Dr. Samir Roy Lecturer (Dept. of Mathematics)</b>	A comprehensive study of natural convection of low Prandtl number (Pr) fluids in rectangular enclosure under various thermal boundary conditions	18 Months	UGC	2008

- **Old/ Submitted/Completed**

**1. Project: "A STUDY ON THE VARIABILITY OF TOTAL ELECTRON**

**CONTENT NEAR THE CREST OF THE EQUATORIAL**

**ANOMALY IN THE INDIAN ZONE**

**Under Indian Space Research Organization RESPOND program, Department of Space, Government of India.**

**a) Duration : 3 years (12.01. 2006 -11.01.2009)**

**b) Amount sanctioned : Rs 8.62 lakhs**

**c) Present status of the project : Completed**

**Results of investigation:**

Unpredictable variations of ambient ionization near the crest of the equatorial ionization anomaly are the major concerns for the maintenance of failsafe communication/navigation link of

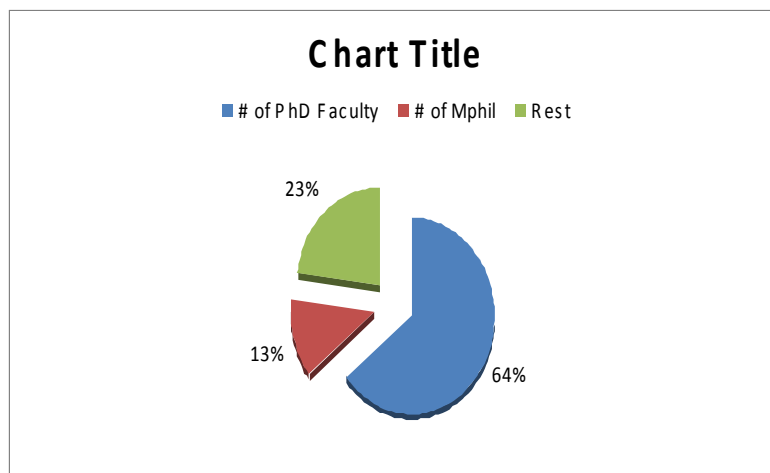
transionospheric signals. Under the project just completed, a long-term (1978-90) study has been made on variability of Total Electron Content (TEC), which is a measure of ambient ionization, in the context of variations in solar flux, equatorial electrojet (EEJ) strength and magnetic activities. Day-to-day changes in TEC at different local times do not show any significant correlation with 10.7 cm solar fluxes but monthly mean TEC at a particular local time exhibits good correlation when both are considered on a long-term basis, i.e., either in ascending or in descending phases. Maximum solar control on diurnal TEC is detected around 0800-0900 hr IST while flux-independent nature for solar flux exceeding 150 units is reflected around the noontime hours for a few months. A prominent hysteresis effect with local time dependence is reflected in the observations. Asymmetrical equinoctial amplitudes and its typical local time effect mark the seasonal feature of solar flux-normalized TEC. When TEC variability is considered with respect to EEJ strength, two peaks in diurnal variation of correlation coefficients, one around 0900 hr IST and the other around 1800-1900 hr IST, are detected. An impulse-like feature is also observed in the EEJ related TEC variation around the same time intervals. A better correspondence is noted in the descending phase of solar cycle than the ascending one while on the seasonal basis, summer solstitial months are found to be more sensitive to the changes in EEJ than the other seasons. Combining the contributions of solar flux, season, local time and EEJ an empirical formula for the monthly mean TEC has been developed and validated. An estimation of relative contributions of several terms in the formula reveals that solar flux contribution is much more (50-70%) than the EEJ contribution in the maintenance of ambient ionization around the present location. Variability of TEC on counter-electrojet (CEJ) days is also investigated. On the days of CEJ events TEC exhibits decreases from the monthly mean values but the feature is not so consistent throughout the period

of observations. Low-to-moderate solar activity period is found to be more sensitive to the CEJ related equatorial dynamics than the high solar activity period. A statistical analysis reveals positive correlation of TEC deviations on the CEJ days with strength, duration of CEJ but anti-correlation with rising slope, strength, time-integrated values of EEJ as well as initiation time of CEJ events.

Extensive investigation on the databases of TEC and 10.7 cm solar flux during geomagnetically disturbed days does not reflect much difference in the morphological behavior for the disturbed and the quiet days. Only lower values of correlation coefficient compared to the quiet period and secondary enhancement in the post-sunset period of summer solstitial months of descending phase mark the differences. For better understanding of TEC variability on magnetically disturbed period, case studies have been initiated. Both enhancements and decreases in TEC from quiet days' values are detected in the TEC variation during both the main and recovery phases of the storms. The results are attempted to interpret in terms of variability of various parameters such as local time of commencement, strength of magnetic storm and Bz, Dst, AE indices.

### **INVOLVEMENT IN RESEARCH**

<b>Number of Faculty members with Ph.D</b>	<b>Number of Faculty members with M.Phil</b>	<b>Number of Faculty members without Ph.D or M.Phil</b>
<b>33</b>	<b>3</b>	<b>18</b>

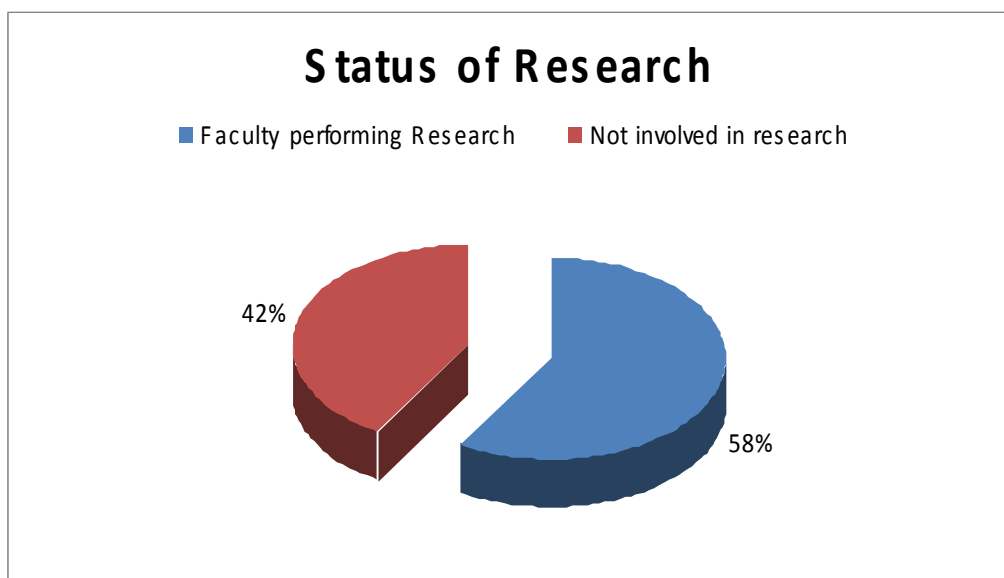


**PERCENTAGE OF TEACHERS HAVING M. PHIL and Ph. D DEGREES**

**TEACHERS ACTIVELY INVOLVED IN RESEARCH WORK**

<b>Name of teachers</b>	<b>Area of research</b>
Dr. Debashis Chattopadhyay	Post-colonial English literature
Dr. Jolly Das	Drama of English literature
Sri Pinaki De	Visual anthropology
Dr. Hrishita Gupta Bakshi	Women studies
Dr. Apurba Dey	Child theatre
Dr. Sarmistha Nath	History of Indian Literary Discourse and Culture
Dr. Kuntal Mukhopadhyay	Drama and culture
Dr. Sanjukta Bhattacharyya	Psychoanalysis, culture and comparative religion
Dr. Shyamal Kr. Chakraborty	Space science
Dr. Arnab De	Water treatment
Tanushree Chaudhuri	Applied Mathematics

Dr. Samir Roy	Applied Mathematics
Mala Bhattacharjee	Market Economics and Planning
Rajrupa Mitra	Environmental economics
Dr. Srutinath Praharaj	Intellectual Property Rights
Dr. Tarit Kr. Bandyopadhyay	Taxonomy of animals
Dr. Maitri Basu	Taxonomy of animals
Subhankar Kr. Sarkar	Entomology
Santanu Rana	Cell and molecular biology
Dr. Dibyendu Talukdar	Taxonomy of plants
Sri Nilu Halder	Taxonomy of plants
Dr. Amal Mondal	Neuroscience
Anupam Mitra	Risk Management

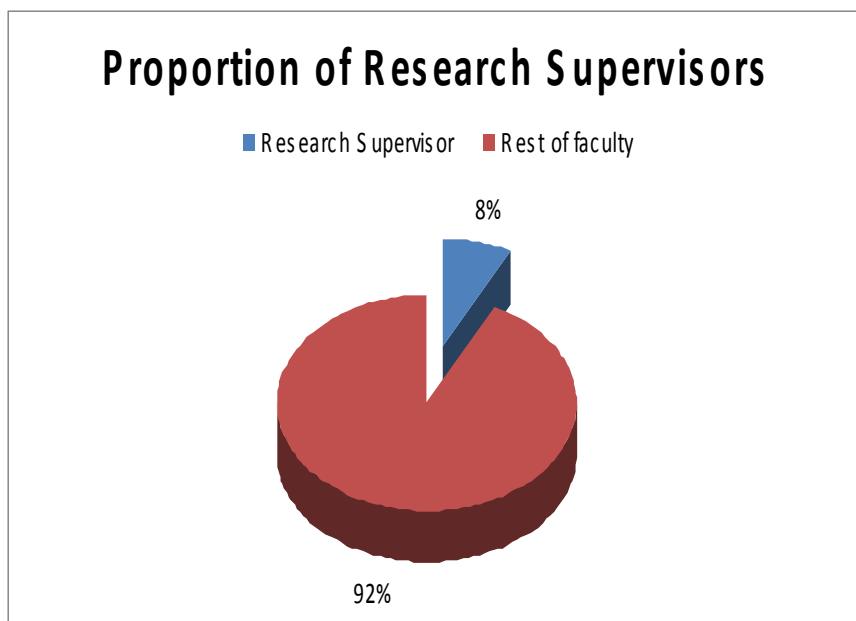


**PERCENTAGE OF TEACHERS ACTIVELY INVOLVED IN RESEARCH WORK**

**TEACHERS APPROVED AS RESEARCH SUPERVISORS**

sl	Name of the	Department and	University where
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	<b>supervisor</b>	<b>designation</b>	<b>approved as research supervisor</b>
<b>1</b>	<b>Dr. Srutinath Praharaj</b>	<b>Reader Dept. of Commerce</b>	<b>University of Calcutta</b>
<b>2</b>	<b>Dr. Debashis Chattopadhyay</b>	<b>Reader Dept. of English</b>	<b>Rabindrabharati University</b>
<b>3</b>	<b>Dr. Anindita Mandal (Majee)</b>	<b>Reader Dept. of Physiology</b>	<b>University of Calcutta</b>



**PERCENTAGE OF TEACHERS APPROVED AS RESEARCH SUPERVISORS**

**[VII] PUBLICATIONS:**

**a) COLLEGE PUBLICATIONS:**

- i) **Academic calendar** for the year 2008-2009 specifying the distribution of syllabus and number of classes allotted for the completion of the same.
- ii) **Staff and Student diaries** for the year 2008-2009 are distributed.
- iii) **“Charcha”** by the TEACHER’S COUNCIL
- iv) Publication of a **Research Bulletin** by the Research unit focusing on the research activities of the college Faculty members in the post-NAAC Period
- v) Publication of a **bulletin by the NSS Unit** of the college on the various

**b) INDIVIDUAL PUBLICATIONS:**

**RESEARCH PUBLICATIONS**

**RESEARCH PAPER PUBLISHED BY TEACHERS IN REFEREED JOURNALS**

<b>NAME</b>	<b>TITLE OF THE PAPER</b>	<b>NAME OF THE JOURNAL</b>	<b>YEAR OF PUBLICATION</b>
<b>Dr. Sanjukta Bhattacharyya</b>	<b>“Émile Durkheim’ Sociological Methodology—A Tool to Understand the Significance of Myth in Society</b>	<b>Journal of The Academy of Indian Philosophy, published by The Academy of Indian Philosophy.</b>	2009
<b>Amal Chandra</b>	Neurotrophin receptor Activation and Expression in Human Post mortem Brain: Effect of Suicide	<i>Biological Psychiatry</i> 65: 319-28	2009

	Lower Phosphoinositide 3-Kinase (PI 3-kinase) Activity and Differential Expression Levels of Selective Catalytic and Regulatory PI 3-Kinase Subunit Isoforms in Prefrontal Cortex and Hippocampus of Suicide Subjects.	<i>Neuropsychopharmacology</i> 33: 2324-2340	2008
<b>Dr Shyamal Kr Chakraborty</b>	Ionosphere near the anomaly crest in the Indian zone during the magnetic storm on March 13-14, 1989	Indian Journal of Radio and Space Physics	2008
	Solar control of ambient ionization of the ionosphere near the crest of the Equatorial anomaly in the Indian Zone	Annales Geophysicae (France); 26,47-57	2008
<b>Dr. Arnab De</b>	Removal of Color of Pulp and Paper Mill Effluent by Adsorption on coal fly ash,	Journal of Industrial Pollution Control (India)	2008
	Use of coal fly ash for the removal of malachite green dye solutions	Journal of Industrial Pollution Control (India)	2008



Dr. Anindita Mondal (Majee)	Relationship between cardiovascular fitness, body composition, blood pressure of Bengalee school-going girls from West Bengal	World Heart Journal (Communicated)	2008
Rajrupa Mitra & Mala Bhattacharjee	Women Empowerment in West Bengal	Naba Ballygunge Mahavidyalaya, Kolkata in Full Proceedings UGC Seminar	Accepted for publication 2008
	Indian Women as Potential Labour Force: A Review of Present Status Based on Certain Parameters	Chandernagore College, in Full Proceedings UGC Seminar	Accepted for publication 2008
Dr. Dibyendu Talukdar	Variability, heritability and scope of selection for some quantitative traits in induced mutant hues of grass pea ( <i>Latlyrus sativas L.</i> )	International Journal of Pl. Science (IJPS)	2008
	Seven different primary trisomics in grass pea ( <i>Lathyrus sativus L.</i> ).II. Pattern of transmission	<b>Cytologia</b> 73:129-136	2008
	Dwarf mutations in grass pea ( <i>Lathyrus sativus L.</i> ):Origin, morphology, inheritance and linkage studies	<b>Journal of Genetics</b> 88:165-175	2009

	Association of seed yield components along with seed neurotoxin content in different varieties and induced mutant lines of grass pea ( <i>Lathyrus sativus</i> L.).	<b>Int. J. Plant Sci.</b> 4:378-380	2009
	Reciprocal translocations in grass pea ( <i>Lathyrus sativus</i> L.). Pattern of transmission, detection of multiple interchanges and their independence.	<b>Journal of Heredity</b>	in press', published online 25 <sup>th</sup> November, 2009
	Recent progress on genetic analysis of novel mutants and aneuploid research in grass pea ( <i>Lathyrus sativus</i> L.).	<b>Afric. J. Agric. Res.</b> 4(13):1549-1559.	2009
	Genetics of pod indehiscence in grass pea ( <i>Lathyrus sativus</i> L)	<b>Crop Science..</b>	2010 in press

## BOOKS PUBLISHED

<b>NAME</b>	<b>TITLE OF THE BOOK/CHAPTER</b>	<b>NAME OF THE PUBLISHER</b>	<b>YEAR OF PUBLICATION</b>
<b>Dr Arnab Dey Reader in Chemistry</b>	Environmental Engineering	published by New Age International, New Delhi	2008

### **[IX] ATTENDANCE OF INTERNATIONAL/NATIONAL CONFERENCE AS RESOURCE PERSON:**

#### **TEACHERS PRESENTING PAPER AT INTERNATIONAL LEVEL**

<b>NAME</b>	<b>NAME OF THE SEMINAR</b>	<b>PLACE AND DATE</b>	<b>TITLE OF PAPER PRESENTED</b>
Dr Jyotish Prakash Basu	Adaptation of Forests and Forest Management to changing climate with Emphasis on Forest Health, A Review of Sciences, policies and Practices	Umea, Sweden 25-29 August, 2008	Climate change, Non-timber Forest Products and Rural Livelihood: A study in the Drought-prone district of West Bengal

	IUFRO Landscape Ecology and Forest Management	Chengdu, China Sept. 16 and 22,	Forest Landscape Restoration and Local People Participation: An Analysis in the Drought Prone Area of West Bengal, India
	Role of Forests in Climate change: Research – Innovations – Investments – Capacity Buildings	St. Petersburg, Russia 4-7 October, 2000	Joint Forest Management as a Climate Strategy: An Empirical Study in the Context of West Bengal, India
	Greening Asian Growth, Economic Transition and Sustainable Agricultural Development in East and South East Asia	Nanjing , China 29-30 October 2000	Transformation from Cereal led growth to Horticulture led growth in Indian Agriculture: Prospects and Challenges

Dr Sanjukta Bhattacharyya	International Conference on Social Philosophy for the New Millennium; 7 <sup>TH</sup> Conference of the International Congress of Social Philosophy	Visva-Bharati University, Santiniketan, West Bengal; 22 <sup>nd</sup> – 24 <sup>th</sup> November 2008	Anuvrata as Social Ethics
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### **TEACHERS PRESENTING PAPER AT NATIONAL LEVEL**

<b>NAME</b>	<b>NAME OF THE SEMINAR</b>	<b>PLACE AND DATE</b>	<b>TITLE OF PAPER PRESENTED</b>
Rajrupa Mitra	U.G.C Sponsored State Level Seminar	Naba Ballygunge Mahavidyalaya, Kolkata 25 November 2008	Measuring Women Empowerment in West Bengal: A Special Focus on North & South 24 Parganas and Kolkata
	U.G.C Sponsored State Level Seminar Chandernagore	Chandernagore College, 6 <sup>th</sup> December 2008	Indian Women as Potential Labour Force: A Review of Present Status Based on Certain Parameters
	National Level Seminar CSESD	Rabindra Bharati University 20 <sup>th</sup> & 21 <sup>st</sup> February 2009	Ecotourism as an Environmentally Sustainable (Development) Process: A Case Study of Sonamukhi Forests(Bankura)

**[VIII] ACADEMIC RESULTS:****STATEMENT OF RESULT 2009****BA/B SC & B COM Part III (Honours) 1+1+1 System 2009**

<b>Subject</b>	<b>Appeared</b>	<b>Absent</b>	<b>Passed with Honours</b>		<b>Qualified as General</b>	<b>Failed</b>
			<b>Ist</b>	<b>IIInd</b>		
<b>Bengali</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>5</b>	<b>0</b>
<b>English</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>
<b>Political Science</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>0</b>
<b>Philosophy</b>	<b>18</b>	<b>1</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>0</b>
<b>History</b>	<b>27</b>	<b>1</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>0</b>
<b>Physics</b>	<b>12</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>1</b>	<b>0</b>
<b>Chemistry</b>	<b>18</b>	<b>0</b>	<b>9</b>	<b>18</b>	<b>0</b>	<b>0</b>
<b>Mathematics</b>	<b>8</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>0</b>
<b>Economics</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>Physiology</b>	<b>7</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>1</b>
<b>Botany</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>0</b>
<b>Zoology</b>	<b>20</b>	<b>0</b>	<b>10</b>	<b>10</b>	<b>0</b>	<b>0</b>
<b>Accountancy &amp; Finance</b>	<b>55</b>	<b>1</b>	<b>10</b>	<b>44</b>	<b>0</b>	<b>0</b>
<b><i>Total</i></b>	<b>252</b>	<b>06</b>	<b>36</b>	<b>216</b>	<b>6</b>	<b>1</b>

**BA/B SC & B COM Part III (General) 1+1+1 System 2009**

<b>Subject</b>	<b>Appeared</b>	<b>Absent</b>	<b>Passed</b>	<b>Failed</b>
<b>B. A</b>	<b>133</b>	<b>0</b>	<b>123</b>	<b>0</b>
<b>B. Sc</b>	<b>91</b>	<b>0</b>	<b>78</b>	<b>0</b>
<b>B. COM</b>	<b>92</b>	<b>18</b>	<b>74</b>	<b>4</b>
<b>Total</b>	<b>316</b>	<b>18</b>	<b>275</b>	<b>4</b>

**B. COM PART II HONS & GEN 2009**

<b>Appeared</b>	<b>Absent</b>	<b>QHons</b>	<b>QGen</b>	<b>PARTIALLY QUALIFIED</b>	<b>I N C</b>	<b>Failed</b>
<b>165</b>	<b>----</b>	<b>44</b>	<b>90</b>	<b>21</b>	<b>7</b>	<b>----</b>

**B. COM PART I HONS & GEN 2009**

<b>Appeared</b>	<b>Absent</b>	<b>QHons</b>	<b>QGen</b>	<b>PARTIALLY QUALIFIED</b>	<b>I N C</b>	<b>Failed</b>
<b>127</b>	<b>----</b>	<b>43</b>	<b>90</b>	<b>36</b>	<b>1 9</b>	<b>1</b>

**B. A & B. SC PART I HONS & GEN 2009**

Appeared	Absent	QHons	QGen	PARTIALLY QUALIFIED	I N C	Failed
746	---	224	211	235	- - -	76

**B. A & B. SC PART II HONS & GEN 2009**

Appeared	Absent	QHons	QGen		INC	Failed
594	----	192	228	143	---	31

**IX] EXAMINATION CONDUCTED:**

The college has a great track record of successfully conducting various examinations.

**a) College Examination:**

**Internal college examinations** regularly take place under the watchful eyes of the Examination Committee. Departmental Examinations, which include Class tests, the respective departments take Unit tests of Honours courses.

- i) 4 CLASS TESTS FOR EACH PAPERS (1+1+1) B.A., B.Sc., B.Com.
- ii) B.A., B.Sc., B.Com. Part II test (2+1) Dec '08
- iii) B.A., B.Sc. Part II test (1+1+1) April '09



iv) B.Com., B.A., B.Sc. Part I test (1+1+1) May '09

**b) University(Calcutta University) Examination of:**

i) B.A/B.Sc., B.Com. Part II Exam April 09

ii) B.Com. B.A/B.Sc.,Part II Exam May – June 09

iii) B.Com. B.A/B.Sc.,Part I Exam June 09

**c) The college has emerged as a Zonal answer scripts distribution center of various Calcutta University examinations.**

1) Philosophy: B.A. Part I (1+1+1) General Paper 1

2) Physics: B.Sc. Part I Practical Exam. Centre

3) Chemistry: B.Sc. Part I Practical Exam. Centre

**[X] ANNUAL ACADEMIC REPORT:**

**ANNUAL ACADEMIC REPORT is updated till 2008-2009**

**[XI] ACTIVITIES OF THE STUDENT UNION:**

**ACTIVITIES OF THE STUDENT UNION:**

The Student Union is an active and constructive body in the college managed democratically by the students themselves. They organize a bevy of activities, a summary of which is given below:

➤ **2008-2009**

<b>NAME OF THE PROGRAMME</b>	<b>DATE</b>
Freshers' Welcome	07.08.08
Inter Class Cultural Competition	10, 11, 12 November 2008
Inter Class Sports Competition	
Annual Sports	25.11.2008
Students Festival	11 <sup>th</sup> & 12 <sup>th</sup> Dec 2008
College Magazine	Published in January 2009

Observation of Black Day	6.12. 2008 & 16.12.08
Saraswati Puja	31.01.2009
<i>Bhasa Dibas</i> (Language Day)	21.02.09

## **2. NEW ACADEMIC PROGRAMMES INITIATED (UG AND PG)**

**a) INTRODUCTION OF 1+1+1 SYSTEM OF EXAMINATION:** The college is affiliated to Calcutta University and new academic programme under 1+1+1 system of examination recently introduced by the university are also applicable to the college. The college, in itself, cannot actively implement any new academic programme.

**b) A. SELF-FINANCING DEGREE COURSE:**

- The Computer Science General Course for B.Sc. students

**B. SELF-FINANCING DIPLOMA/CERTIFICATE COURSE:**

- **JOB COURSE: Carrier Oriented Courses Sponsored by UGC**

Six career-oriented courses have been introduced as suggested by the NAAC Peer Team. The courses are funded by UGC for which 12 lakhs (7 lakhs for Science stream and 5 lakhs for commerce stream) have been sanctioned.

<b>NAME OF THE COURSE</b>	<b>COURSE CO-ORDINATOR</b>
<b>COURSES BELONGING TO THE SCIENCE STREAM</b>	
i) Medical Laboratory Technology.	Dr. Bitanbindu Bandyopadhyay
ii) Fishery Management	Sri Uday Sankar Hazra
iii) Information & Computer Technology	Dr. Shyamal Chakraborty.

<b>COURSES BELONGING TO COMMERCE STREAM</b>	
v) Banking	Dr. Jyotish Prakash Basu
vi) Tax Practice Procedure	Sri Sudhin Kumar Bera
iv) E - Commerce	Sri Anupam Mitra

**NATURE OF COURSE:** 1 year Certificate Course / 6 disciplines

**SYLLABUS:** Prepared by College Faculty & Co-ordinators.

**ADMISSION:** From July every year

**NATURE OF COURSE:** 1 year Certificate Course / 6 disciplines

**SYLLABUS:** Prepared by College Faculty & Co-ordinators.

**ADMISSION:** From July every year

**NO. OF STUDENTS PER COURSE:** 20 students per course. Each course will be of 30 credits of which 10 credits will be assigned to fieldwork / Project

STUDENTS IN THE SESSION 2008-09

- Medical Laboratory Technology: 30
- E – Commerce: 2
- Information & Computer Technology: 3

**C) NETAJI SUBHAS OPEN UNIVERSITY – RPMC STUDY CENTRE**

**(CODE NO. H – 03):** The Study Centre has received approval for functioning as an admission centre for PG Courses on **01.06.05** & from that time onward it is dutifully servicing its duties in accordance with the request of the University. In brief, the activities done by the Study Centre during last year

**RAJA PEARY MOHAN COLLEGE STUDY CENTRE OF NETAJI SUBHAS OPEN UNIVERSITY**

- **COURSES OFFERED:** **TENURE**
- Bachelors' preparatory programme.

1) Arts	06 Months
2) Commerce	06 months
▪ Certificate in Human rights	02 Years
▪ Bachelors degree programme (BDP) in (Sub- Phy, Chem, Math, Zoology, Math, Bot, Beng, Eng, History, Pol. Sc, Pub. Adm., Sociology, Commerce)	03 Years
▪ Bachelors degree programme in Library & Information science	01 Year
▪ P.G diploma in Radio & T.V journalism	01 Year
▪ P.G diploma in Journalism & Mass communication	01 Year
▪ P.G diploma in English language teaching	01 Year
▪ P.G degree course in – Bengali, English, History, Pol. Sc, Education, MSW, Commerce, Mathematics, Zoology.	02 Year

### **3. INNOVATIONS IN CURRICULAR DESIGN AND TRANSACTION**

The college is affiliated to Calcutta University and the curricular reforms under 1 + 1+ 1 system of examination recently introduced by the university are also applicable to the college. The college actively participated implement any curricular changes although faculty inputs are given regularly to the University which in turn helps the authorities to reshape the syllabus of various subjects.

- The College cannot design and review the curriculum. The Board of Studies, University of Calcutta, solely does it. Hence, though some teachers do participate in the process as members of the Syllabus sub-committee that is not sufficient when requirements of the students for the local job scenario are considered.
- The College cannot introduce courses at will. It can only provide subject / elective options to the students, who sometimes expect wider options.

- There are teachers who are associated with various innovations in curricular design of CU:

<b>Sl. No.</b>	<b>Name of the Teacher</b>	<b>Designation</b>	<b>Hold on</b>
1.	Dr. Bitanbindu Bandyopadhyay	Reader in Physiology	Member, Syllabus Committee for Under Graduate courses in Physiology.
2.	Dr. Srutinath Praharaj	Reader in Commerce	Elected Member of the Senate, Calcutta University, since 1995 till date. Member, Syllabus Committee for Under Graduate courses in Commerce.
3.	Dr Kuntal Mukhopadhyay	Reader in Political Science	Member, Syllabus Committee for Under Graduate courses in Political Science
4.	Dr. Binod Kumar Pathak	Reader in Botany	Member, Syllabus Committee for Under Graduate courses in Botany.
6.	Dr Hrishita Gupta Bakshi	Reader in Bengali	Member, PG Arts Council

#### **4. INTER-DISCIPLINARY PROGRAMMES STARTED**

Teachers' Council regularly organises interactive sessions among teachers of various departments in the college, formally called "Pathachakra" ("Study Circle"), to encourage the inter-disciplinary approach. The sessions are also formally published in the magazine "Charcha" so that the valuable inputs are not lost in the vagaries of

time. During the year the following sessions are held which in turn are compiled in the 4<sup>th</sup> volume of "Charcha"

a) Anupam Mitra—Tax Planning, Tax Avoidance, Tax Evasion & Tax Management

b) Dr Shila De — The Role of Spectator (Preksaka) in Sanskrit Drama

c) Subhankar Kr Sarkar---Monoclonal Antibodies: A Brief Account

d) Santanu Rana---Cellular Magic: A Design By Nature

#### **5. EXAMINATION REFORMS IMPLEMENTED**

The college is affiliated to Calcutta University and the examination reforms under 1+1+1 system recently introduced by the university are also applicable to the college. The college, in itself, cannot actively implement any examination reforms although inputs are given regularly to the University which in turn helps the authorities to reshape the system.

#### **6. CANDIDATES QUALIFIED IN NET/SLET/GATE**

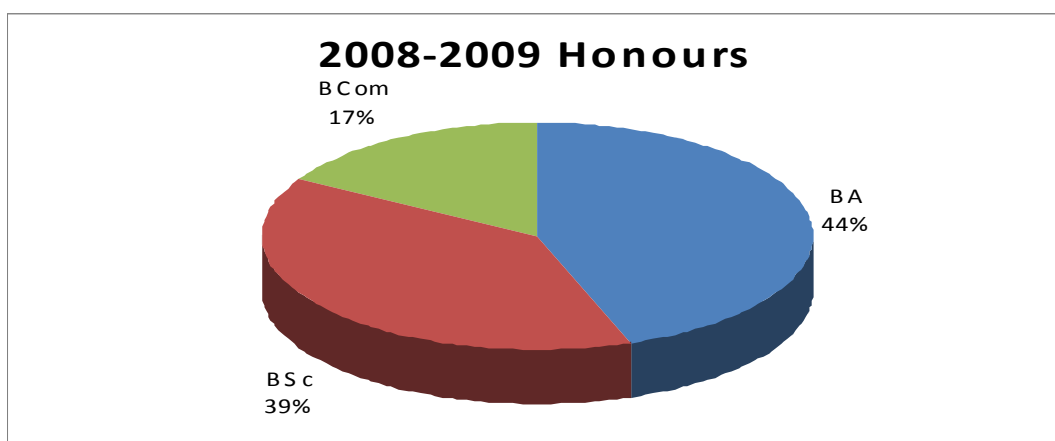
The college presently doesn't have the provision of post-graduate courses. The minimum criterion needed to apply for NET/SLET/GATE is 55% in masters. So the college actively cannot encourage the students for these examinations. However, the college alumni have a good track record in these examinations. Last year, we have record of one such alumnus who qualified NET (2006) in English, the details of which is given below:

<b>NAME</b>	<b>DEPARTMENT</b>	<b>YEAR OF NET QUALIFICATION</b>
Priyam Banerjee	Zoology	2008
Suparna Sarkar	Zoology	2008

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## **7. INITIATIVE TOWARDS FACULTY DEVELOPMENT PROGRAMME**

The teachers regularly take part in international, national and state level seminars to keep themselves updated on the current trends in their respective subjects. They also attend the Orientation and Refresher courses regularly as per UGC guidelines.



### **PERCENTAGE OF TEACHERS WHO ATTENDED ORIENTATION COURSE AND REFRESHER COURSE**

<b>NAME</b>	<b>DEPT.</b>	<b>NATURE OF COURSE</b>	<b>UNIVERSITY</b>	<b>DURATION OF PARTICIPATION</b>
Dr. Malabika Banerjee	Bengali	Refresher	Jadavpur University	17.11.08-06-12.08
Anupam Mitra	Commerce	Orientation	Jadavpur University	Nov 2008

Subhankar Kr Sarkar	Zoology	Orientation	Calcutta University	August 2008
Dr. Sanjukta Bhattacharyya	Philosophy	Refresher	Calcutta University	17.03.08
Dr. Partha Sarathi Ghosh	Botany	Refresher	NEHU, Shillong	13.10.08-04.11.08
Dr. Dibyendu Talukdar	Sr Lecturer in Botany	Refresher Course	Kalyani University	02.01.08-22.01.2008
Sri Nilu Halder	Lecturer in Botany	Orientation Programme	University of Calcutta	6.07.2009—1.08.2009

#### **8. TOTAL NUMBER OF SEMINARS / WORKSHOPS CONDUCTED:**

<b>NAME OF THE SEMINAR/CONFERENCE /SYMPOSIA /WORKSHOP ETC.</b>	<b>NAME OF THE SPONSORING AGENCY</b>	<b>DATE</b>
Swami Vivekananda- His Relevance in Today's World	N S S UNIT	12.01.2009
Study Circle--InterDiciplinary Programme-- an interactive sessions among teachers <i>On Monoclonal Antibodies: A Brief Account</i> <i>by Sri Subhankar Kr Sarkar—Lecturer in Zoology</i>	Teachers' Council of Raja Peary Mohan College	January 2009
Study Circle--InterDiciplinary Programme-- an interactive sessions among teachers <i>On Cellular Magic: A Design By</i>	Teachers' Council of Raja Peary Mohan College	February 2009



<b>Nature</b> by Sri Santanu Rana—Lecturer in Zoology		
Study Circle--InterDiciplinary Programme-- an interactive sessions among teachers <b>On Tax Planning, Tax Avoidance, Tax Evasion &amp; Tax Management</b> by Sri Anupam Mitra—Lecturer in Commerce	Teachers' Council of Raja Peary Mohan College	March 2009
Study Circle--InterDiciplinary Programme-- an interactive sessions among teachers <b>On The Role of Spectator (Preksaka) in Sanskrit Drama</b> y Dr Shila De ---Reader in Sanskrit	Teachers' Council of Raja Peary Mohan College	April 2009
<b>Workshop on "Solid Waste Management Improvement Project"</b>	Raja Peary Mohan College NSS Unit and Kolkata Solid Waste Management Improvement Project managed by YACHIYO-SENES Group	11/9/2008

## **9. RESEARCH PROJECTS**

### **MAJOR RESEARCH PROJECTS**

#### **ONGOING MAJOR RESEARCH PROJECT:**

- 1. Project ongoing: A study on variability of post-sunset total electron content and scintillation near the crest of the equatorial anomaly in the Indian zone**

**Under Indian Space Research Organization RESPOND program, Department of Space, Government of India.**

**a) Duration : 3 years**

**b) Amount sanctioned: Rs 9.43 lakhs**

**c) Present status: Started on April'09 and continuing**

**Objectives of the ongoing project:**

Ionospheric Total Electron Content (TEC) and scintillation are two major aspects of the International Space Weather scenario. In the present proposal a large volume (1977-90) of archived database of TEC and VHF/UHF scintillation in the post sunset period will be utilized to develop an improved forecasting capability of ionospheric scintillation near the equatorial anomaly crest. Day-to-day variability of TEC and scintillation (VHF/UHF) observed from a location, Calcutta, near the equatorial ionization anomaly crest of the Indian longitude zone will be combined with the variability of the F-layer base height near the magnetic equator in the post sunset period to generate an empirical formula and a forecast model of scintillation occurrences. Efforts will be made to identify a suitable electrojet index which may be considered as precursor to scintillation phenomenon. Long period of database involved a large number of disturbed days. Scintillation and TEC databases for the disturbed days along with  $D_{st}$ , AE and  $B_z$  indices, and DMSP ion density data will be integrated to develop a concise picture of the Indian low-latitude ionosphere during geomagnetic disturbances. As the data period includes large number of disturbed days at various levels of solar as well as geomagnetic activities – the results of observation will potentially be employed to improve the predictive capabilities of the geomagnetic storm effects on the ionosphere near the equatorial anomaly crest.

<b>Name of the Principal Investigator with designation</b>	<b>Department</b>	<b>Name of the Research Project</b>	<b>Funding Agency</b>	<b>Amount</b>	<b>Duration</b>
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<b>Dr Shyamal Kumar Chakraborty</b> Reader in Physics	<b>Department of Physics</b>	<b>A study on variability of post-sunset total electron content and scintillation near the crest of the equatorial anomaly in the Indian zone"</b>	<b>Under Indian Space Research Organization <u>RESPOND</u> program, Department of Space, Government of India</b>	<b>Rs 9.43 lakhs</b>	<b>Three years 2009-2012</b>
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**MINOR RESEARCH PROJECTS  
ON GOING**

<b>NAME OF THE TEACHER</b>	<b>NAME OF THE PROJECT</b>	<b>DURATION</b>	<b>FUNDING AGENCY</b>	<b>YEAR OF GRANT</b>
<b>Dr. Anindita Mandal (Majee)</b> Reader (Dept. of Physiology)	Cardio-Vascular and respiratory status of workers engaged in different industries and occupation in West Bengal	18 Months	UGC	2009
<b>Dr Amal Chandra</b>	Role of monoamine neurotransmitters in	18 Months	UGC	2009

<b>Mondal Lecturer (Dept. of Physiology)</b>	learned helplessness behaviour and depression in rat model			
<b>Dr. Samir Roy Lecturer (Dept. of Mathematics)</b>	A comprehensive study of natural convection of low Prandtl number (Pr) fluids in rectangular enclosure under various thermal boundary conditions	18 Months	UGC	2008

- **Old/ Submitted/Completed**

- 1. Project: "A STUDY ON THE VARIABILITY OF TOTAL ELECTRON**

**CONTENT NEAR THE CREST OF THE EQUATORIAL**

**ANOMALY IN THE INDIAN ZONE**

**Under Indian Space Research Organization RESPOND program, Department of Space, Government of India.**

**d) Duration : 3 years (12.01. 2006 -11.01.2009)**

**e) Amount sanctioned : Rs 8.62 lakhs**

**f) Present status of the project : Completed**

**Results of investigation:**

Unpredictable variations of ambient ionization near the crest of the equatorial ionization anomaly are the major concerns for the maintenance of failsafe communication/navigation link of

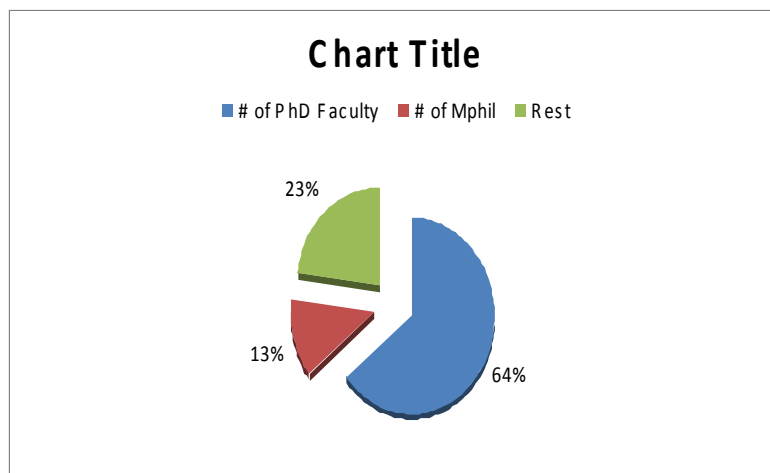
transionospheric signals. Under the project just completed, a long-term (1978-90) study has been made on variability of Total Electron Content (TEC), which is a measure of ambient ionization, in the context of variations in solar flux, equatorial electrojet (EEJ) strength and magnetic activities. Day-to-day changes in TEC at different local times do not show any significant correlation with 10.7 cm solar fluxes but monthly mean TEC at a particular local time exhibits good correlation when both are considered on a long-term basis, i.e., either in ascending or in descending phases. Maximum solar control on diurnal TEC is detected around 0800-0900 hr IST while flux-independent nature for solar flux exceeding 150 units is reflected around the noontime hours for a few months. A prominent hysteresis effect with local time dependence is reflected in the observations. Asymmetrical equinoctial amplitudes and its typical local time effect mark the seasonal feature of solar flux-normalized TEC. When TEC variability is considered with respect to EEJ strength, two peaks in diurnal variation of correlation coefficients, one around 0900 hr IST and the other around 1800-1900 hr IST, are detected. An impulse-like feature is also observed in the EEJ related TEC variation around the same time intervals. A better correspondence is noted in the descending phase of solar cycle than the ascending one while on the seasonal basis, summer solstitial months are found to be more sensitive to the changes in EEJ than the other seasons. Combining the contributions of solar flux, season, local time and EEJ an empirical formula for the monthly mean TEC has been developed and validated. An estimation of relative contributions of several terms in the formula reveals that solar flux contribution is much more (50-70%) than the EEJ contribution in the maintenance of ambient ionization around the present location. Variability of TEC on counter-electrojet (CEJ) days is also investigated. On the days of CEJ events TEC exhibits decreases from the monthly mean values but the feature is not so consistent throughout the period

of observations. Low-to-moderate solar activity period is found to be more sensitive to the CEJ related equatorial dynamics than the high solar activity period. A statistical analysis reveals positive correlation of TEC deviations on the CEJ days with strength, duration of CEJ but anti-correlation with rising slope, strength, time-integrated values of EEJ as well as initiation time of CEJ events.

Extensive investigation on the databases of TEC and 10.7 cm solar flux during geomagnetically disturbed days does not reflect much difference in the morphological behavior for the disturbed and the quiet days. Only lower values of correlation coefficient compared to the quiet period and secondary enhancement in the post-sunset period of summer solstitial months of descending phase mark the differences. For better understanding of TEC variability on magnetically disturbed period, case studies have been initiated. Both enhancements and decreases in TEC from quiet days' values are detected in the TEC variation during both the main and recovery phases of the storms. The results are attempted to interpret in terms of variability of various parameters such as local time of commencement, strength of magnetic storm and Bz, Dst, AE indices.

### **INVOLVEMENT IN RESEARCH**

<b>Number of Faculty members with Ph.D</b>	<b>Number of Faculty members with M.Phil</b>	<b>Number of Faculty members without Ph.D or M.Phil</b>
<b>33</b>	<b>3</b>	<b>18</b>

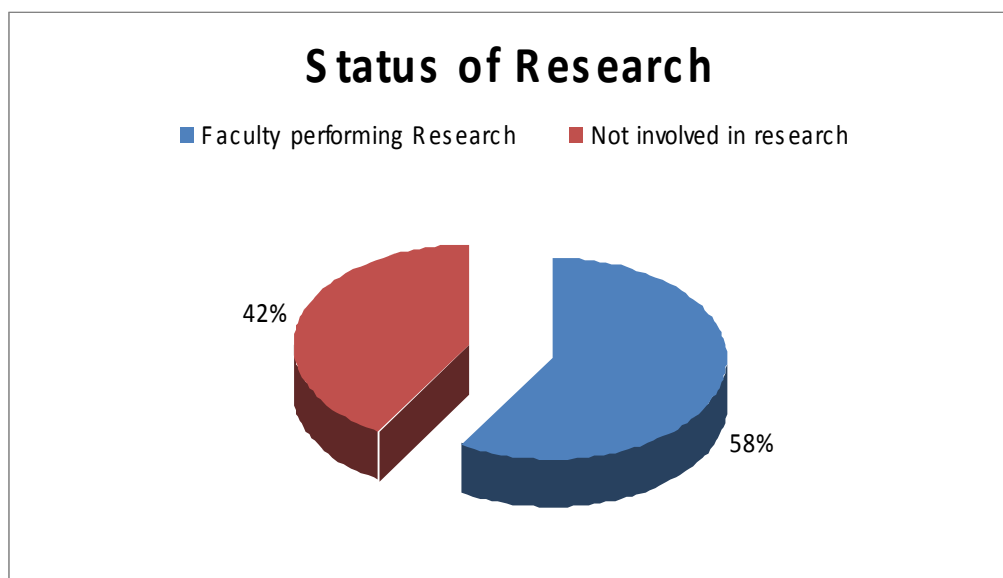


**PERCENTAGE OF TEACHERS HAVING M. PHIL and Ph. D DEGREES**

**TEACHERS ACTIVELY INVOLVED IN RESEARCH WORK**

<b>Name of teachers</b>	<b>Area of research</b>
Dr. Debashis Chattopadhyay	Post-colonial English literature
Dr. Jolly Das	Drama of English literature
Sri Pinaki De	Visual anthropology
Dr. Hrishita Gupta Bakshi	Women studies
Dr. Apurba Dey	Child theatre
Dr. Sarmistha Nath	History of Indian Literary Discourse and Culture
Dr. Kuntal Mukhopadhyay	Drama and culture
Dr. Sanjukta Bhattacharyya	Psychoanalysis, culture and comparative religion
Dr. Shyamal Kr. Chakraborty	Space science
Dr. Arnab De	Water treatment
Tanushree Chaudhuri	Applied Mathematics

Dr. Samir Roy	Applied Mathematics
Mala Bhattacharjee	Market Economics and Planning
Rajrupa Mitra	Environmental economics
Dr. Srutinath Praharaj	Intellectual Property Rights
Dr. Tarit Kr. Bandyopadhyay	Taxonomy of animals
Dr. Maitri Basu	Taxonomy of animals
Subhankar Kr. Sarkar	Entomology
Santanu Rana	Cell and molecular biology
Dr. Dibyendu Talukdar	Taxonomy of plants
Sri Nilu Halder	Taxonomy of plants
Dr. Amal Mondal	Neuroscience
Anupam Mitra	Risk Management



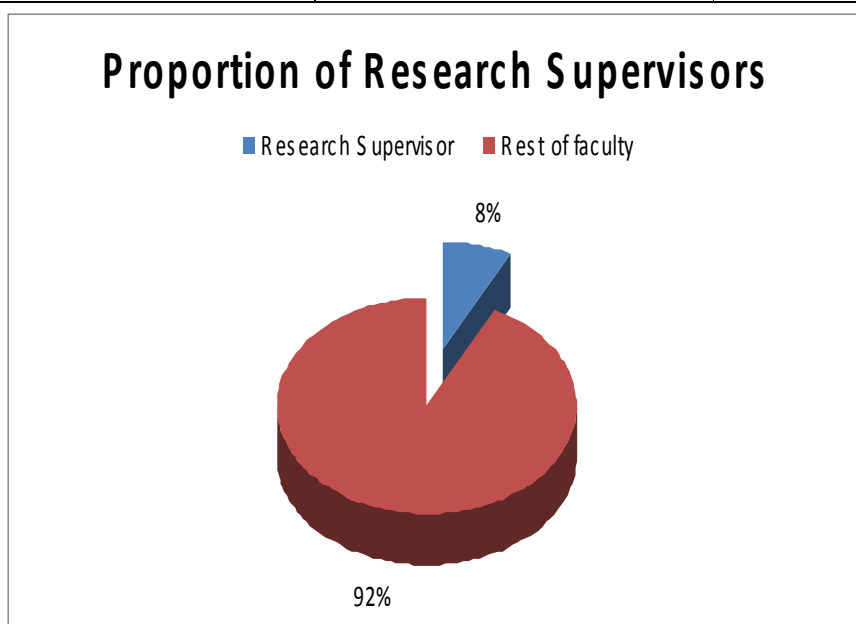
**PERCENTAGE OF TEACHERS ACTIVELY INVOLVED IN RESEARCH WORK**

**TEACHERS APPROVED AS RESEARCH SUPERVISORS**

sl	Name of the	Department and	University where
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	<b>supervisor</b>	<b>designation</b>	<b>approved as research supervisor</b>
<b>1</b>	<b>Dr. Srutinath Praharaj</b>	<b>Reader Dept. of Commerce</b>	<b>University of Calcutta</b>
<b>2</b>	<b>Dr. Debashis Chattopadhyay</b>	<b>Reader Dept. of English</b>	<b>Rabindrabharati University</b>
<b>3</b>	<b>Dr. Anindita Mandal (Majee)</b>	<b>Reader Dept. of Physiology</b>	<b>University of Calcutta</b>



**PERCENTAGE OF TEACHERS APPROVED AS RESEARCH SUPERVISORS**

**10. PATENTS GENERATED, IF ANY**

Not Applicable.

**11. NEW COLLABORATIVE RESEARCH PROGRAMMES**

**A major research grant (Rs 23 lakhs) has sanctioned by the Science Engineering and Research Council (SERC) Division, Department of Science & Technology, Technology Bhawan, New Mehrauli Road, New Delhi-110 016.**

**A brief of the project regarding Animal use, PI'S Name, Project title is given below:**

**1. Project/Dissertation/Thesis Title: "Role of Neurotrophins in stress and depression"**

**2. Principal Investigator/Research Scholar/Research Guide/Advisor:**

**a. Name: AMAL CHANDRA MONDAL**

**b. Designation:** Lecturer in Physiology

**c. Dept./ Div./ Lab:** PHYSIOLOGY

**d. Telephone No.** 033-2663-4155 / 9432209050

**e. Experience:** PI has expertise doing all the proposed experiments. He had used same animal model of depression on different project in the Dept. of Psychiatry, University of Illinois at Chicago (UIC), Chicago, IL-60612, USA.

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## **12. RESEARCH GRANTS RECEIVED FROM VARIOUS AGENCIES**

Presently research work is being carried in the college under the aegis of

a) UGC (Minor Research Projects)

b) INDIAN SPACE RESEARCH ORGANISATION (ISRO),  
Department of Space, Government of India, under RESPOND  
Program.

## **13. DETAILS OF RESEARCH SCHOLARS**

### **• RESEARCH SCHOLARS IN MAJOR RESEARCH PROJECTS:**

**1) A project entitled "A Study on the Variability of Total Electron Content near the Crest of the Equatorial Anomaly in the Indian zone" has been sanctioned by the**

**INDIAN SPACE RESEARCH ORGANISATION (ISRO),  
Department of Space, Government of India, under  
RESPOND Program for financial assistance. Total approved  
grant for the Project is Rs.6.96 lakhs for three years.  
Principal Investigator of the said Project is Dr. Shyamal  
Kumar Chakraborty, Department of Physics.**

- RESEARCH SCHOLARS IN MINOR RESEARCH PROJECTS:**

**MINOR RESEARCH PROJECTS**

**Minor Research Projects granted by UGC:**

- ON GOING**

<b>NAME OF THE PRINCIPAL INVESTIGATOR</b>	<b>NAME OF THE PROJECT</b>	<b>DURATION</b>	<b>FUNDING AGENCY</b>	<b>YEAR OF GRANT</b>
<b>Dr. Anindita Mandal (Majee) Reader (Dept. of Physiology)</b>	Cardio-Vascular and respiratory status of workers engaged in different industries and occupation in West Bengal	18 Months	UGC	2009
<b>Dr Amal Chandra Mondal Lecturer (Dept. of Physiology)</b>	Role of monoamine neurotransmitters in learned helplessness behaviour and depression in rat model	18 Months	UGC	2009

<b>Dr. Samir Roy</b> <b>Lecturer</b> <b>(Dept. of</b> <b>Mathematics)</b>	A comprehensive study of natural convection of low Prandtl number (Pr) fluids in rectangular enclosure under various thermal boundary conditions	18 Months	UGC	2008  2008
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**14. CITATION INDEX OF FACULTY MEMBERS AND IMPACT FACTOR**

**Citation index of Dr. Amal Chandra Mondal, Lecturer in the Department of Physiology is given below:**

- 1) Dwivedi Y, Rizavi HS, Zhang H, Mondal AC, Roberts RC, Conley RR, Pandey GN. Neurotrophin receptor Activation and Expression in Human Post mortem Brain: Effect of Suicide: Biological Psychiatry 65: 319-28, 2009
- 2) Dwivedi Y, Rizavi HS, Teppen T, Zhang H, Mondal AC, Roberts RC, Conley RR, Pandey GN. Lower Phosphoinositide 3-Kinase (PI 3-kinase) Activity and Differential Expression Levels of Selective Catalytic and Regulatory PI 3-Kinase Subunit Isoforms in Prefrontal Cortex and Hippocampus of Suicide Subjects. Neuropsychopharmacology 33: 2324-2340, 2008.[NaturePublishingGroup]]

**15. HONOURS/AWARDS TO THE FACULTY**  
**RECOGNITION OF TEACHERS AT INTERNATIONAL LEVEL**

- Dr Sanjukta Bhattacharyya- Best Cultural Ambassador in 2009—  
By the Romanian Government, One of their Highest Civilian  
Awards For her works on Mircea Eliade

### **RECOGNITION OF TEACHERS AT NATIONAL LEVEL**

- **Dr. Amal Mondal** nominated for best post-doctorate  
work by UGC in 2008-2009.

### **16. INTERNAL RESOURCES GENERATED**

Various departments like Commerce, English, Political Science, Philosophy and Bengali have generated funds to buy books, almirahs and printers of their own. Commerce and English Department have published their own journal as well, which marks a first of its kind in undergraduate departments of the state.

i) Students Fees: Rs. 22,98,445/-

ii) Fund mobilization from auditorium: Rs.20,800/-

### **17. DETAILS OF DEPARTMENTS GETTING SAP, COSIST**

#### **(ASSIST)/DST, FIST. ETC. ASSISTANCE/RECOGNITION**

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**A brief of the project regarding Animal use, PI'S Name, Project title is given below:**

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**2. Principal Investigator/Research Scholar/Research Guide/Advisor:**

**a. Name: AMAL CHANDRA MONDAL**

**b. Designation: Lecturer in Physiology**

- c. Dept./ Div./ Lab:**                   PHYSIOLOGY
- d. Telephone No.**                    033-2663-4155 / 9432209050
- e. Experience:**                    PI has expertise doing all the proposed experiments. He had used same animal model of depression on different project in the Dept. of Psychiatry, University of Illinois at Chicago (UIC), Chicago, IL-60612, USA.

## **18. COMMUNITY SERVICES**

The college boasts of excellent track record with respect to social services.

### **A. COMMUNITY SERVICES**

The college boasts of excellent track record with respect to social services.

#### **Activities of 2008-2009:**

- **The unit participated National level camp in Bhubaneshwar** in August 2008 with ten (10) students.
- **Workshop on “Solid Waste Management Improvement Project”** Organized by Raja Peary Mohan College NSS Unit and Kolkata Solid Waste Management Improvement Project managed by YACHIYO-SENE Group on 11/9/2008 152 of participating students actively responded to commit their services to promote this project in their own families and communities. The details are as follows:
  - 8 hours or more per week : 8 students
  - 4-8 hours or more per week : 18 students
  - 2-4 hours or more per week : 79 students

- 2 hours or less per week : 46 students

The unit is also preparing to organize a **health, nutrition and education awareness camp** in a colony among children of lower income group in the Uttarpara-Kotrung Municipality area on 25<sup>th</sup> December 2008

## **ii) SERVICE LEARNING THROUGH BLOOD DONATION**

The Students Union of Raja Peary Mohan College organizes Blood Donation Camp Every Year in collaboration with Central Blood Bank, Manicktala, Kolkata. The College collects blood of at least about 60 donors. The blood is stored and transported under optimum condition with the help of Central Blood Bank workers and Students of the College. Transfusion was always under the supervision of trained personnel. Under the policy, blood transfusion is available to people irrespective of their economic or social status.

## **iii) ACHARYA PRAFULLA CHANDRA ROY ECO CLUB**

Raja Peary Mohan College Eco Club was established in a joint collaboration with "Pachim Banga Bigyan Mancha", a body actively engaged in enhancing scientific awareness throughout the state. In fact it is the only organisation of its kind in an undergraduate college in West Bengal.

## **iv) RAJA PEARY MOHAN COLLEGE MEDICAL UNIT**

The Medical Unit under the aegis of the convener, Dr. Sugopa Ghosh Mondal has made great progress in monitoring the health of the students, teachers and non-teaching staff. Most of the students have been issued health cards. Members of the Alumni Association and one of the donor members of the Governing Body are experienced

physicians and they have also volunteered to provide free medical check-up once in a month. This year the unit organized a health camp on physical checkup of I st year students of the college, which included pressure, height weight and general check up of all students and also blood group test.

## **B. CULTURAL AND CO-CURRICULAR ACTIVITIES**

This College have always encouraged cultural activities among students. A few examples may be cited:

### **i) FRESHERS' WELCOME:**

- At the beginning of the Academic Session, after admissions are complete, the Students' Union Organise Freshers' Welcome for the newly admitted students. The Principal and some members of the Staff apprise the students regarding the College, its ambience and aims. This is followed by Cultural Programme organised by the students.

### **ii) COLLEGE DRAMA GROUP:**

- The Students' Union actively participates in socio-cultural upliftment through production of dramas which are staged in various villages and townships of the districts of West Bengal. Such dramas depict the Social evils, the atrocities against women and the downtrodden.



- Presently the ex-students of the college has formed a theatre group "Saronik" which performs regular shows in different districts of the state and has also received some recognitions from theatre loving persons of Bengal.

### **iii) STUDENTS' FESTIVAL:**

A two-day programme is held in the month of November December every year. The major programmes are:

- Prize Distribution Ceremony: Prizes are distributed among successful candidates of various University Examination who have topped among the College students, and to winners of Singing, Recitation, Debate, Extempore Speech, Quiz Competitions.
- Inter-Institutional Cultural Competition: Academic Institution in and around the College are invited to participate in a cultural competition. Every year a significant number of schools take part in this programme. Such initiatives are taken to spread the message of peace, equality in diversity and a drug-free world among the future of the Nation.
- The students of the Departments of Bengali, Philosophy, English, Physiology, Political Science, Physics, Chemistry, Economics, History, Mathematics, Zoology, Botany, Commerce have organised function to felicitate teachers on Teachers' Day.

## **C. COLLABORATION WITH NGOS FOR COMMUNITY SERVICES**

- **Eco Club Raja Peary Mohan College was established in a joint collaboration with "Pachim Banga Bigyan Mancha", one of the biggest NGO in West Bengal, a body actively engaged in enhancing scientific awareness throughout the state. In fact it is the only organisation of its kind in an**

**undergraduate college in West Bengal.** The joint effort has produced the following results:

- **In 2006 the inspiring and active effort of Dr Srutinath Praharaj, Head of the Department of Raja Peary Mohan college led to the formation of NGO "ALO" specially for the needy and talented students. The teachers of this college willingly became members of this organization and are taking initiative to collected donation from different source to help some talented people to realize their aim to some extent. The teachers also donated as when required and some of them regularly to the fund of this organization.**
  
- **"PRERONA", established in 2007 this Non-Government organization (NGO) help the needy and talented students. Some teachers of our college---Dr Hrishita Gupta Bakshi of the Bengali Department and Smt Monalisa Srimani of the History Department give free coaching to the students in the graduation level in this organization.**
  
- **Last but not the least some teachers of this college too the initiative to help a talented and needy student "Sri Santanu Mukherjee" to become a MBBS Doctor. In 2005 from a Bengali daily newspaper they got the news that student from a village in Bankura District got chance in the joint entrance medical examination in National Medical College but was unable to continue his studies for lack of money. The teachers contacted the student through the newspaper and took initiative to make his aim come true. He is now in his final year and we hope that he will complete his studied successfully in a very short time**

## **19. TEACHERS AND OFFICERS NEWLY RECRUITED**

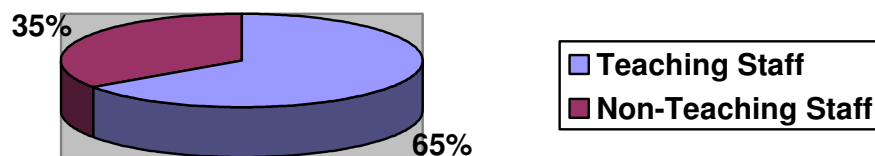
**Pallab Gayen: Dept of Chemistry on 01. 07.2008**

**Dr Sarmistha Nath: Dept of History on 25.07.2008**

**Bidisha Mondal: Dept of Zoology on 08. 08.2009**

## **20. TEACHING AND NON-TEACHING STAFF RATIO**

<b>Teaching Staff</b>	<b>Non -Teaching Staff</b>
<b>64</b>	<b>34</b>



## **21. IMPROVEMENTS IN LIBRARY SERVICES**

- The College Library is situated in the 3<sup>rd</sup> Floor of the old building with a beautiful overview of the Hooghly river and Dakshineswar Temple. This Library was established in the year 1927 and has a rare book section of invaluable books.

- Presently, the total number of books in the Library is 21,115 and every year there is a fresh purchase of books from the UGC grants. The Library remains open on all days except on holidays and Sundays. There is a duly constituted Library Committee.
- The manual cataloguing of the books is nearly complete. The library catalogue is being wholly computerized. This monumental work is progressing satisfactorily and is expected to be completed by next year. The library infrastructure has also been revamped with more organised racks, proper seating arrangements and improved toilet/drinking water facilities. Each department is upgrading their seminar library with addition of new books and journals.
  - a. A Career Corner is created in the main Library** to keep books regarding, general knowledge, carrier guidance and entrance examination for different job in December 2006.
  - b. The 2<sup>nd</sup> instalment of UGC grant of Rs. 1.50 lakhs allotted for buying books & journals is being utilized.**
  - c. The college is going to subscribe E-journal shortly for which the process is on.**

**SOME INITIATIVES ARE TO BE TAKEN FOR IMPROVEMENTS:**

- d. Computers for students for browsing and access to the stock of books in the Main Library through LAN and Customize software are projects, which are in the pipeline. Internet facilities will also be made available to them after installation of LAN.
- e. The authority will arrange training for the office and Library staff after installation of LAN to enable them to learn the handling of customizes software.

- f. The college is almost 125 years old. So the library possesses old and rare books, some dated almost 100 years old. Certain procedures have been taken to ensure its preservation but much more concerted action is needed.

## **22. NEW BOOKS/JOURNALS SUBSCRIBED AND THEIR VALUE**

<b>No of books purchased in 2008-2009</b>	<b>Amount from UGC Grant</b>	<b>Amount from College fund</b>	<b>Total</b>
<b>1010</b>	<b>Rs 1,50,000</b>	<b>Rs 12,000</b>	<b>Rs 1,62,000</b>

**23.**

## **COURSES IN WHICH STUDENT ASSESSMENT OF TEACHERS IS INTRODUCED AND THE ACTION TAKEN ON STUDENT FEEDBACK**

Detailed analysis of the student feedback for the session 2008-2009 is done and remedial measures are taken in consultation with the teachers. The internal report remains with the Principal who selects areas of concern to be addressed on priority basis to departments or individual teachers. An abridged report is also circulated among the teachers which are given below:

### **a) FEEDBACK REGARDING TEACHING AND EVALUATION:**

#### **i) COMMERCE:**

*Overall assessment of the department:*

The teachers are extremely cordial and friendly. Always ready to help. Classes are taken regularly. Assignments are completed in time. The teachers are responsive to the queries of the students.

#### **ii) BIOLOGICAL SCIENCES:**

**Botany:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Shortage of teaching staff.

**Physiology:** Overall assessment of the departmental teachers is very good with a few exceptions mentioned below:

- Shortage of teaching staff

**Zoology:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Need for more books in the central and seminar library, which should be accessible to the students.

### **iii) PURE SCIENCES**

**Physics:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Internet facilities required

**Chemistry:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Need for a separate physical chemistry practical laboratory.
- Internet facilities required

**Economics:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Need for more teaching staff.
- Syllabus not completed in time.

**Mathematics:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Internet facilities required

### **iv) ARTS:**

**Bengali:** Overall assessment of the departmental teachers is very good with a few exceptions as mentioned below:

- More classes should be taken.
- Need for computer and Internet facilities.

- Separate room for Honours class

**English:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Need of more teaching staff.
- More classes should be taken by teachers.
- Need for computer and Internet facilities.
- Separate room for Honours class

**History:** Overall assessment of the departmental teachers is very good with a few exceptions as mentioned below:

- Inadequate teaching staff.
- Need for computer and Internet facilities.
- Separate room for Honours class

**Political Science:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Need of more teaching staff to complete the syllabus in time.
- Need for computer and Internet facilities
- Separate room for Honours class

**Philosophy:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Need of more teaching staff.
- Separate room for Honours class.
- Need for computer and Internet facilities

**Sanskrit:** Overall assessment of the departmental teachers is very good with a few. Exceptions are mentioned below:

- Need of more teaching staff.

#### **b) FEEDBACK REGARDING LIBRARY:**

- Shortage of books of new syllabus.

- Shortage of reference books
- Seminar libraries are of great help to the students.
- More books and journals are needed in the seminar libraries for the students to get easy access.
- Need for computer and Internet facilities

**d) FEEDBACK REGARDING DRINKING WATER FACILITIES:**

- Drinking water facilities have improved.

**e) FEEDBACK REGARDING TOILETS:**

- The conditions of gents and ladies staff and student toilets have improved.
- The toilets should be cleaned regularly.
- Need for a ladies toilet in the second floor

**f) FEEDBACK REGARDING COMMON ROOMS:**

- More games (indoor) should be available in the boys common room.
- The girls' common room is now big and clean

**g) FEEDBACK REGARDING CANTEEN:**

- Food quality and variety have improved.
- The canteen should be airy with enough light.

**h) FEEDBACK REGARDING CAMPUS:**

- Need for playground.
- College is cleaned regularly.
- More greenery is needed in the college.
- Extension of the campus is required

**i) FEEDBACK REGARDING MEDICAL UNIT/FIRST AID:**



- First aid is available students and teacher's common rooms are available in college hours.
- Regular health check-up is done every year.
- Health awareness Programmes should be held regularly

**j) FEEDBACK REGARDING ORGANISATION AND MANAGEMENT:**

- Behaviour of some office staff should be congenial.
- The notices regarding office work should be given well in advance.
- Happy with the recent overall improvement of the college but still scope for more improvement.
- Management and Teachers are cordial and helps the students in time of their need.

**24. UNIT COST OF EDUCATION**

ANNUAL EXPENDITURE OF THE COLLEGE FOR THE YEAR **2008-2009.**

SL. NO.	HEAD OF A/C	TOTAL EXPENSES (Rs)
01.	Academic purposes	50,000.00
02.	Audit Fee	15,000.00
03.	Book Binding	3,000.00
04.	Building	5,50,000.00
05.	Centenary Hall	70,000.00
06.	College Central Computer and Xerox machine	76,000.00
07.	College Examination	75,000.00
08.	Contingency	30,000.00
09.	C.U and Council Examination, Registration, Migration, PPS etc.	13,50,000.00

10.	Educational Excursion	75,000.00
11.	Electricity (general) except Centenary Hall	2,25,000.00
12.	Furniture and Fixtures	2,00,000.00
13.	Games and Sports (including related refreshments)	25,000.00
14.	Health, Environment and Social Service	25,000.00
15.	Insurance	1,313.00
16.	Interest on O/D	1,00,000.00
17.	Laboratory apparatus/Equipments (including maintenance)	1,15,000.00
18.	Laboratory Chemicals/Solvent oils/Gas etc.	95,000.00
19.	Lab. Materials/glass goods/stationary/party expenses	75,000.00
20.	Laboratory specimen	40,000.00
21.	Labour charges	35,000.00
22.	Law suit and Lawyer's honorarium	5,000.00
23.	Library Books	2,80,000.00
24.	Management expenses	30,000.00
25.	Municipal Tax	5,000.00
26.	IQAC& Website Maintenance	50,000.00
27.	Office Expenses	30,000.00
28.	Plan expenditure other than building	50,000.00
29.	Postages (including revenue stamp other than salary purpose)	2,000.00
30.	Printing and Outside Xerox (general other than College exam)	60,000.00

31.	Refund	83,500.00
32.	Remuneration	7,58,200.00
33.	Sanitation	10,000.00
34.	Service charges paid to N.T.S	20,000.00
35.	Settlement of Outstanding claims	2,00,000.00
36.	Special term deposit (S.T.D)	20,00,000.00
37.	Students Health Home (S.H.H)	8,616.00
38.	Students' Union (S.A.F and S.U.F)	1,42,164.00
39.	Subscriptions/Donations etc.	3,500.00
40.	Subsidy	18,000.00
41.	Telephone/Internet Expenses	40,000.00
42.	Traveling Allowances (T.A)	50,000.00
43.	UGC-Job Course	3,00,000.00
44.	ISRO expenses	3,75,000.00
45.	Advance (other than salary)	1,00,000.00
46.	MRP expenses	1,50,000.00
47.	Generator(New Purchase)	1,50,000.00
48.	Various/Miscellaneous Expenses	50,000.00
	<b>Total</b>	<b>96,37,828.37</b>

**CALCULATED UNIT COST OF EDUCATION in 2008-2009** [Annual Expenditure of 2008-2009 (given as above) divided by the total number of students in the year 2008-2009 (whose total number is 2485)]: **Rs. 3878.40**

**25. COMPUTERIZATION OF ADMINISTRATION AND THE PROCESS OF ADMISSIONS AND EXAMINATION RESULTS, ISSUE OF CERTIFICATES**

- The administrative work pertaining to the activities of Bursar has been computerized which has facilitated the issue of salary bills at regular intervals. The admission selection process is also wholly computerized as suggested by the visiting NAAC Peer Team.
- Installation of Local Area Networking (LAN) is complete to bring all activities under one platform and also for efficient and effective functioning of all activities of the college with customized and administrative software for all administrative, official, and academic activities.
- Broadband Service is arranged to facilitate Internet access both for the students and faculty members and will be connected to the departments and library very soon through LAN.
- Computer access is available to the Students of computer science, Physics, Chemistry, Mathematics, Commerce, Economics and Botany.
- The arrangement of computer in the other department is in the process through LAN.
- Computers for students for browsing and access to the stock of books in the Main Library through LAN and customized software are projects, which are in the pipeline. Internet facilities will also be made available to them after installation of LAN.
- The authority will arrange training for the office and Library staff after installation of LAN to enable them to learn the handling of customized software.
- E-journal is going to be subscribed shortly for which is process on.

## **26. INCREASE IN THE INFRASTRUCTURAL FACILITIES**

### **RECENT INFRASTRUCTURAL DEVELOPMENTS**

- Expansion and Renovation of the department of Botany

- Renovation and remodeling of Room for Remedial Coaching and Coaching for Entry Service Cell for SC, ST, OBC, Minorities and Financially Backward students.
- Renovation and remodeling of room for Career and Counseling Cell
- Renovation and remodeling of The College Auditorium
- Renovation of Room for NSS Unit and Eco-Club and
- Renovation of Room for Alumni Association

#### **[V] TECHNICAL UPGRADATION:**

Some technical up gradation was also undertaken to keep up with the ever-changing scenario of technological evolution.

- **Full LAN implementation Connecting all Departments and office and Library**
- **Library Automation is on. Computers for students for browsing and access to the stock of books in the Main Library through LAN with Customized software are projects, which are in the pipeline. Internet facilities will also be made available to them after installation of LAN.**
- **Audio-Visual Mode of Teaching for all Departments**
- **E-Journal Subscription— Process for subscription is on going**
- **Installation of a 30 k v Generator for Continuous and uninterrupted power supply**
- **Admission Through website apart from the existing old system has started from 2008-2009**
- **Full computerization of student's records (Admission, Results, Attendance etc.)**
- **Full Computerization of all financial records of the College is on.**
- **More Computer access is available to the Students of computer science, Physics, Mathematics, & Commerce**

- **The arrangement of computer in the other department is in the process through LAN.**
- **The authority will arrange training for the office and Library staff after installation of LAN to enable them to learn the handling of customized software**

## **28. COMPUTER AND INTERNET ACCESS AND TRAINING TO TEACHERS AND STUDENTS**

- i) Broadband Service is arranged to facilitate Internet access both for the students and faculty members.
- ii) Computer access is available to the Students of computer science, Physics, Chemistry, Mathematics, Commerce, Economics and Botany.
- iii) Automation of the library, Computers for students for browsing and access to the stock of books in the Main Library through LAN and Customize software are projects, which are in the pipeline. Internet facilities will also be made available to them after installation of LAN.
- iv) The authority has arranged for training programmes for the office staff and Library staff after installation of LAN to enable them to learn the handling of customizes software.

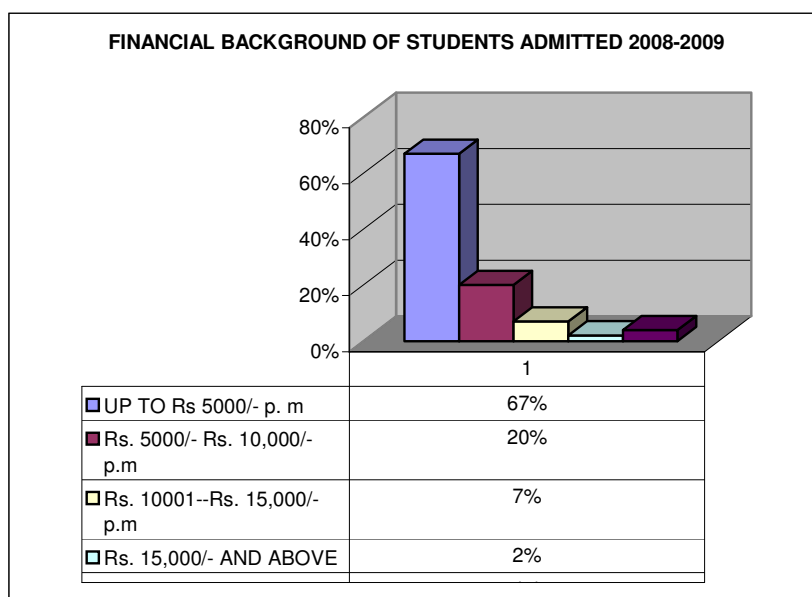
## **29. FINANCIAL AID TO STUDENTS**

a) Regular travel concessions are awarded to each and every student of the college.

### **FINANCIAL AID TO STUDENTS**

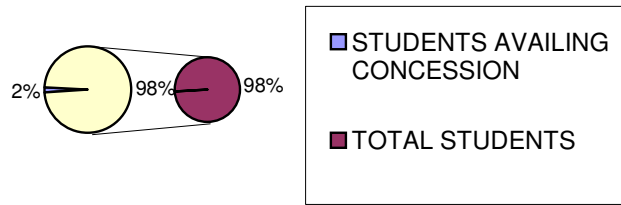
- The college financially help needy students and wave their students fees.  
or give 50% concession for their students' fees.

- Regular travel concessions are awarded to each and every student of the college.
- *Tatyana Sedina Saha Memorial Endowment scholarships* amounting to Rs. 5000 each year are awarded to the best Chemistry students of different years and the best student among other science subjects.
- *Bandana Chatterjee Memorial Endowment Scholarship* amounting to Rs. 1000 per year is awarded to the best Physics Honours student based on Part II results.
- The teachers of the college financially helped a needy medical student named by Shantanu Mokherjee of National Medical College, Kolkata to buy books and instruments for his study.

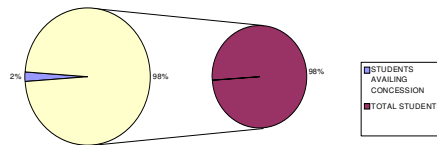


**Number and Percentage of students availing concession in Tuition for the period 2008-2009:**

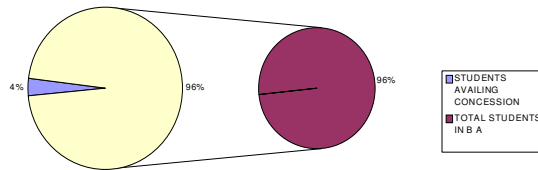
**% OF STUDENTS AVAILING CONCESSION IN B SC  
STREAM IN 2008-2009**



**% OF STUDENTS AVAILING CONCESSION IN B COM STREAM IN 2008-2009**

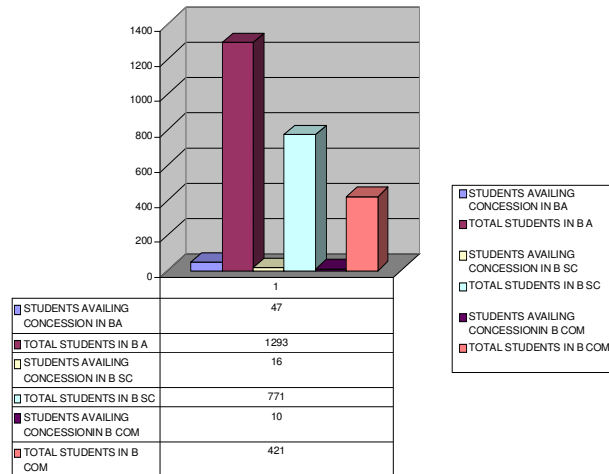


**% OF STUDENTS AVAILING CONCESSION OF BA STREAM IN 2008-2009**

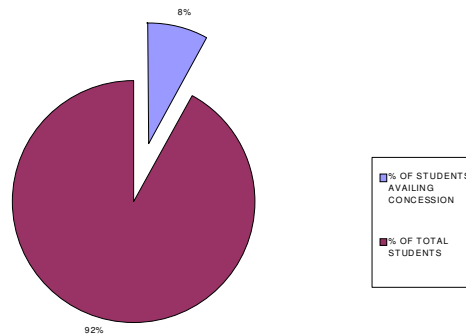




**NUMBER OF STUDENTS AVAILING CONCESSION IN BA BSC AND B COM STREAM IN 2008-2009**

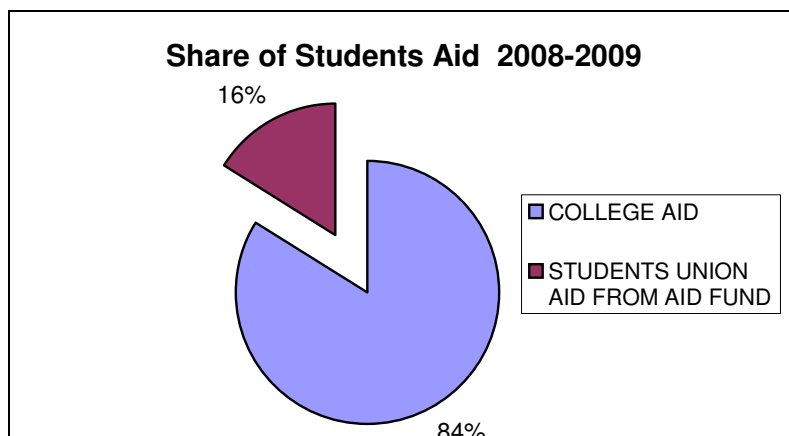


**% OF STUDENTS AVAILING CONCESSION 2008-2009**



### **Students Aid Fund:**

**The college has a student aid fund managed by the students union of the college. Needy students on recommendation of the student union get financial support from this fund.** The college authority after verifying the applications with the help of students union and teaching and non-teaching staff give the aid on merit-cum-means basis from its own resources. Separate allocation is made for this in the Budget of the college every year.



### **30. ACTIVITIES AND SUPPORT FROM THE ALUMNI ASSOCIATION**

#### **ALUMNI ASSOCIATION**

The Alumni Association was formed once again after a lapse of 19 years on 19.09.2004. *Raja Peary Mohan College Old Students' Association* was formed in 1935, to help the College to overcome the financial crisis it faced at that time. In 1986, during the Centenary Celebration of the College an Alumni Association was formed. However, it ceased to exist after a short while. On 19th September 2004 the present Alumni Association has been formed in an organized way and the first meeting was held on that day. **The present convener of the alumni association is Sri Uday Sankar Hazra, Head of the Department of Zoology of the college and also an ex-student of this** college. The Association is preparing to register it under the existing law..

### **31. ACTIVITIES AND SUPPORT FROM THE PARENT-TEACHER ASSOCIATION**

The college is yet to officially form a Parent-Teacher association but every department organizes parent-teacher meetings regularly to discuss the performance of the students and also to exchange ideas

regarding the college and students. Constructive criticism is given the utmost priority in these meetings, which later help the students to enhance their performance level.

➤ **Parent – Teacher Meeting:**

Some Departments (like Bengali, English, Chemistry, Mathematics, Philosophy, Physiology, Zoology and Commerce) have conducted Parent Teacher meetings to interact with parents regarding their wards.

### **32. HEALTH SERVICES**

#### **RAJA PEARY MOHAN COLLEGE MEDICAL UNIT**

The Medical Unit under the aegis of the convener, Dr. Sugopa Ghosh Mondal has made great progress in monitoring the health of the students, teachers and non-teaching staff. Most of the students have been issued health cards. Members of the Alumni Association and one of the donor members of the Governing Body are experienced physicians and they have also volunteered to provide free medical check-up once in a month. This year the unit organized a health awareness programme on swine flu. First aid is available students and teacher's common rooms are available in college hours. Regular health check-up is done every year

### **33. PERFORMANCE IN SPORTS ACTIVITIES**

### **34. INCENTIVE TO OUTSTANDING SPORTSPERSONS**

- Teachers encourage outstanding but needy sportspersons individually with voluntary monetary help. Special leaves are granted to enable them to participate in different competitions

### **35. STUDENT ACHIEVEMENTS AND AWARDS**

- **University Cricket Tournament 2008: Preliminary**
- **Illiad Football Shield 2009: Quarter Final**
- **University Football Tournament 2009: Quarter Final**
- **University Kho Kho Tournament 2008: Champion**
- **University Kho Kho Tournament 2009: Semi Final**
- **University Women's Kabadi Toyrnament 2008: Runners Up**
- **Inter College Football Tournament 2009: Semifinal**
- **Arpita Mukherjee: First in Inter College Singing Competition 2008**
- **Inter State Drama Competition organized by Anik Natya Gosti—IIIrd, Best Production and Dippaman Chatterjee and Biswajit Banerjee for acting**

### **SPORTS FACILITIES AVAILABLE IN COLLEGE AND ACTIVITIES**

- The physical and infrastructure facilities available in the sports and physical education centre:

#### **Outdoor Games:**

- Permission is obtained from the authorities of Bally Jute Mill for their playground, which is within 500 meters from the College, and Uttarpara Govt. High School which is next to the College for outdoor, games like football & cricket.

#### **Annual Sports:**

- The College Annual Sports is Held in the Bally Jute Mill Playground.
- Regular inter-class sports competition are held every year to encourage budding sports talent among the students. Last year it was held November 2007

### **Indoor Games**

- The Boys' Common Room is Equipped for Table Tennis, Chess, Carom etc.

**The Chart of the participation of students during the last year at the university, state, regional, national and international meets.**

<b>Level of Game</b>	<b>Participation of students</b>	<b>Outcome</b>
<b>State (University)</b>	<b>32</b>	
<b>Regional (College)</b>	<b>960</b>	
<b>National</b>	<b>02</b>	<b>Nil</b>
<b>International</b>	<b>Nil</b>	<b>Nil</b>

### **36. ACTIVITIES OF THE GUIDANCE AND COUNSELLING UNIT**

- **A guidance and counseling unit** is created in order to lend a helping hand to the students so that they can cope better with the demands and pressures of increasingly competitive surroundings. Recently UGC has sanctioned money to rejuvenate the cell in the XI Plan, Dr Bulbul Thakur is appointed by the college authority as the coordinator of the cell

### **37. PLACEMENT SERVICES PROVIDED TO STUDENTS**

At present there is no organized placement cell in the college. The Career and Counseling cell under Dr Bulbul Thakur is planning for campus interviewing and placements for students through such campusing. The teachers of the college individually also advise the students with respect to various career options.

### **38. DEVELOPMENT PROGRAMMES FOR NON-TEACHING STAFF**

- a) Sri Rupak Kar underwent extensive training in a foreign language (Chinese). He also participated in various photographic workshops and exhibitions.
- b) Sri Pritwish Bhattacharyya actively organizes drama festival in the vicinity of the college.
- c) Non-teaching staff has been allotted a separate Recreation Room with provision for indoor games.

### **39. HEALTHY PRACTICES OF THE INSTITUTION**

- a) The admission process of the college is based strictly on merit and norms laid down by Calcutta University and monitored by the Governing body.
- b) Internal assessment of the teachers is also done based on inputs provided by the students.
- c) Academic audit is done meticulously every year.
- d) Financial audit is done every year to ensure transparency in administrative matters.

### **40. LINKAGES DEVELOPED WITH NATIONAL/INTERNATIONAL, ACADEMIC/RESEARCH BODIES**

Dr. Amal Mondal during his post-doctoral research worked with two international groups one led by Dr. Robert R. Conley of Maryland

Psychiatric Research Centre, Baltimore, Maryland, USA and another led by Dr. Gabor Faludi, Dr. Milkos Palkovits, Dr. Andrea Sarosi of The Laboratory of Morphology, Hungarian Academy of Sciences and Semmelweis University, Budapest, Hungary.

**Dr. Samir Roy worked with IIT Madras, TU Kaiserslautern, ITWM, the Research and Development consultancy to EU Industry under the supervision of Dr. Michael Junk.**

**COLLABORATION WITH NATIONAL LEVEL ACADEMIC INSTITUTIONS**

- a) A project entitled *"A Study on the Variability of Total Electron Content near the Crest of the Equatorial Anomaly in the Indian zone"* has been sanctioned by the **INDIAN SPACE RESEARCH ORGANISATION (ISRO), Department of Space, Government of India, under RESPOND Program for financial assistance. Total approved grant for the Project is Rs.6.96 lakhs for three years. Principal Investigator of the said Project is Dr. Shyamal Kumar Chakraborty, Department of Physics.**
- b) A major research grant (Rs 23 lakhs) has sanctioned by the **Science Engineering and Research Council (SERC) Division, Department of Science & Technology, Technology Bhawan, New Mehrauli Road, New Delhi-110 016.**

Name of the Principal Investigator with designation	Department	Name of the Research Project	Funding Agency	Amount	Duration
Dr Amal Chandra Mondal Lecturer in Physiology	Department of Physiology	" Role of Neurotrophins in stress and depression"	Science Engineering and Research Council (SERC) Division, Department of Science & Technology, Technology Bhawan, New Mehrauli Road, New Delhi-110 016.	Rs 23 lakhs	Three years 2009-2012

**c) Several teachers are members of esteemed national and international academic and cultural bodies. A detailed report is given below:**



DEPARTMENT	NAME	NATIONAL/INTERNATIONAL BODIES
English	Dr. Debashis Chattopadhyay	Shakespeare Society of Eastern India
Bengali	Dr. Hrishita Gupta Bakshi	Member, Ganatantrik Lekhak Shilpi Sanghatan
Political Science	Dr. Kuntal Mukhopadhyay	Member of Central Committee, Ganatantrik Lekhak Shilpi Sanghatan
Physics	Dr. Shyamal Chakraborty	Indian Physical Society
	Dr. Santanu Dasgupta	Indian Statistical Institute
Chemistry	Dr. Nasima Banu Khan	Indian Chemical Society; Indian Science Congress
	Dr. Raghupati Mukhopadhyay	Indian Chemical Society (Life Member); Institution of Chemists, India (Life Member and Associate Editor of their journal);
	Dr. Arnab Dey	Institution of Chemists, India (Life fellow)
Mathematics	Smt. Tanushree Chowdhury	Calcutta Mathematical Society, India
Zoology	Dr. Parthasankar Ray	Zoological Society of India

	Dr. Tarit Kumar Bandyopadhyay	Zoological Society of India; Bangiya Bigyan Parishad, India; Bangiya Sahitya Parishad, India; Ganatantrik Lekhak Shilpi Sangha, India;
	Dr. Maitri Bose (Biswas)	Zoological Society of India; Zoological Association of Burdwan, India;
	Sri Subhankar Kumar Sarkar	Zoological Society of India; Association of Indian Entomologists at North America (AIEMA) (Online member)
Physiology	Dr. Bulbul Thakur	Physiological Society of India (Life Member); Alliance for the Prudent Use of Antibiotics (Life Member); Pachim Banga Vigyan Mancha (Life Member);
	Dr Anindita Mondal (Majee)	Physiological Society of India; Indian Science Congress
	Dr. Amal Chandra Mondal	Society for Neuroscience (SFN), Washington, USA
Commerce	Dr. Srutinath Praharaj	Vice President, WBCUTA; Member of Central Committee, Ganatantrik Lekhak Shilpi Sanghatan; Commerce Alumni Association Calcutta University;
	Dr. Sudhin Bera	C.U Commerce Alumni Association

	Sri Partha Sarathi Chattopadhyay	C.U Commerce Alumni Association; Life Member, Indian Economic Association; Indian Statistical Institute
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## **PART C**

### **PLANS FOR THE FUTURE**

**There are immediate plans for qualitative enhancement of the college's potential in the following directions.**

- **Building Expansion: Room for Arts Faculty, Room for Research Projects**
- **Full Library Automation**
- **E-Journal & journals Subscription for the Central Library**
- **Library infrastructure modifications & renovation.**
- **Rejuvenation of the Career and counseling Cell with UGC Funding and arranging campus interviews for students and academic counseling of students**
- **Starting UGC Funded Remedial Coaching cell for SC ST OBC & Financially Backward Students.**
- **Starting UGC Funded Coaching For Entry Services for SC ST OBC & Financially Backward Students.**
- **Opening New subjects like Sociology & Journalism**
- **Training for teachers, Librarian and students of the concern Departments for the use & maintenance of instruments.**

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DR KUNTAL MUKHOPADHYAY  
COORDINATOR  
Internal Quality Assurance Cell  
Raja Peary Mohan College,  
Uttarpara, Hooghly  
West Bengal.

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DR MILAN KUMAR PAL  
CHAIRMAN & PRINCIPAL  
Internal Quality Assurance Cell  
Raja Peary Mohan College  
Uttarpara, Hooghly West Bengal.