

BETHUNE COLLEGE KOLKATA

(COLLEGE WITH POTENTIAL FOR EXCELLENCE)



FIFTH ANNUAL QUALITY ASSURANCE REPORT
2010-11

SUBMITTED TO

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BANGALORE**

FIFTH ANNUAL QUALITY ASSURANCE REPORT-(2010-2011)

INTRODUCTION:

The Internal Quality Assurance Cell of Bethune College was formalized in November, 2006 and met for the first time on the 29th of the same month. Important issues relating to Quality sustenance/enhancement of the Institute were discussed at several meetings held during 2007 and 2008, 2009, 2010 and 2011. Academic audit of the Departments were carried out during the summer recess of 2011 and several issues related to the academic and administrative aspects of the College were discussed elaborately at these meetings. The opinion of the final Year students related to different issues listed in the feedback forms were corroborated on.

The three most eventful development in the academic year 2010-11 were as follows

1. Approval of the Action Plan and Budget under CPE (College with Potential for Excellence) by the University Grants Commission at the interface meeting held on 16th August 2010, at New Delhi. A brief outline of the same is given under Part A of this report.

2. Celebration of the Birth Centenary of Pritilata Wadde- the great freedom fighter and an alumna of the College.

The year long Celebration was inaugurated by the then Chief minister of West Bengal on 26th August, 2010. A new building named "Pritilata Bhavan" was inaugurated under his august presence. On the same day an International Seminar and exhibition on "Pritilata Wadde, Bethune College and Revolutionary Movement in colonial Bengal" was initiated by the Department of History, Bethune College in collaboration with Directorate of State Archives, Higher Education Department, Government of West Bengal.

An inter-college essay and extempore speech competition was held on 27th August, 2010.

A seminar on "Woman in revolution" was organized on 24th September, 2010, observed as Pritilata Sahid Dibas. This was followed by a student seminar on 5th May, 2011.

3. Celebration of the 150th birth anniversary of Chandramukhi Bose, the first Principal of Bethune College and **Dr. Kadambini Ganguly**, both alumnae of the College Patronized by the Higher Education Department, Govt. of west Bengal, a seminar was organized on 09.09.2010 in which a number of eminent speakers participated.

PART A: The plan of action chalked out by the IQAC in the beginning of the year toward quality enhancement and the outcome achieved by the end of the year.

The University Grants Commission has identified Bethune College as a College with Potential for Excellence. Following the intimation of the University Grants Commission to prepare the Action Plan and Budget for the years 2010-11 & 2011-12, a special Committee was formed. The Budget was framed keeping a 60:40 ratio under the Non-Recurring and Recurring Heads.

The broad outlines on the basis of which the Action Plan and Budget was chalked out is listed below.

<p>a) Improvements in Teaching (UG)</p>	<ul style="list-style-type: none"> • Improvement in infrastructure to facilitate better Classroom teaching: Funds were sought for purchase of collar microphones, LCD Projectors, Laptops and Softwares. • Seminar by Resource persons and students Different departments of our college organize seminars at State and National Level on a regular basis to establish links with other teaching and learning institutions and research centers. The Undergraduate and Postgraduate students of Bethune College are very much enthusiastic to deliver seminar lectures in front of teachers and other students which develop their communication skill and confidence. Funds were sought for both types of Seminars. • Career support to UG students Funds were sought under the following heads: <ol style="list-style-type: none"> i. A Certificate course in Spoken English by an expert associated with British Council in Kolkata. ii. Certificate course in Content Writing by an expert from print media for improvement of English writing skill of English (Honours) students. • Improved laboratory facility There are four undergraduate departments (Physics, Chemistry, Botany and Zoology) in the college which need extensive laboratory work as a part of their under graduate curriculum. Funds were sought for upgrading these old laboratories.
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	<ul style="list-style-type: none"> • Support to newly opened course A Women's Studies centre has been initiated by the college funded by UGC vide memo no.F.No.7-38/2009 (WS) dt 13.07.2009. Seven projects are run by the teachers of this college and they are eligible to take classes in this subject. Hence, the college has introduced a new course in Women's Studies as a General subject after obtaining due permission from the University of Calcutta vide memo no.C/1296/9-AFFL dt 19th July, 2010. However, the university recommended involving a Full time teacher in this subject. Therefore, for smooth running of the course, the college wanted to engage a guest teacher having requisite qualification for which financial assistance was sought.
b) Improvements in Teaching (PG)	<ul style="list-style-type: none"> • Advanced teaching interfaced with technology and Internet Facility I. Enhanced communication among students and teaching fraternity through better Internet facilities. Financial assistance for purchase of DVD player and LCD monitor in English Department to give audio visual cues to text related material in the special paper on Films Studies was sought. ii. Financial support was asked for research Projects of PG Final year students of Botany, Zoology and Mathematics for better exposure to advanced laboratory techniques, software and data processing and acquaint the students of English to modern techniques in Film and Media. iii. In July 2010 our College had 46 computers allocated to different Departments for providing internet facility of relatively weak bandwidth to the entire college having 4 buildings through a single server. Therefore, to provide fast internet service to both the teachers and students in all the departments, we sought financial support for better internet connectivity through improvement of our existing LAN connection. • Improved library facility Close Circuit TV for proper monitoring and safe custody of our valuable books. Digitization of rare books to preserve our enriched library resources. Bethune College is one of the ancient colleges in India. The College library has first print of various rare books, so digitization is required for preserving all these books. • Improved PG laboratory infrastructure Funds were sought for purchase of Wide Field Binoculars, Laminar Flow, Microscopes, maintenance of Animal house and upgradation of Mathematics (PG) laboratory. • Preparatory classes for NET/GATE/SET

<p>c) Research</p>	<ul style="list-style-type: none"> • Development of Multifacility Centre for Science <p>Bethune College, over the last few years has been actively involved in research. It has been receiving funds regularly from various agencies like UGC, DAE, West Bengal Biodiversity Board, Department of Health and Family Welfare, Govt. of West Bengal and others.</p> <p>Additionally, funds were required for the purchase of the following Instruments.</p> <p>Gel Documentation XR system-BIORAD Stereoscopic Microscope with camera (Carl Zeiss) Spectrophotometer – for quantitative analysis of Biomolecules -80°C Freezer – for long term storage of biological samples. AMC for all existing and newly procured equipments</p> • Development of Multifacility Centre for Humanities <p>The funds were required for the purchase of the following :</p> <p>Computer LCD Projector Duplex Printer (network ready) for printing of downloaded research articles External hard disc for maintaining soft copies of downloaded research articles Photocopying machine Books CD/DVD Bank Paper, ink for Photocopier and duplex printer and maintenance</p> • Preservation and Maintenance of Archives for research in the Humanities streams. • Subscription of e-Journals
<p>d) Extension Activities</p>	<p>Financial support was sought for:</p> <ul style="list-style-type: none"> • Community Participation <ol style="list-style-type: none"> i. Providing assistance to school dropout girls of the slum adopted by the cell ii. Providing medicines to the same slum. iii. Interacting with the aged and the physically challenged inhabitants of Homes. • Sports & Extracurricular activities of the students <p>The college proposed to build a Badminton cum Basket ball court so that intra-college Badminton and Basket ball tournaments could be organized annually.</p> <p>The college also proposed to purchase equipments for some indoor games such as table tennis, carom, dart board etc. These could be utilized by both the students and the teachers.</p>

	<p>Maintenance of the existing gymnasium.</p> <p>The college proposed to support the financially challenged girl students who are extremely talented sports persons by providing sports equipments and gears so that they can achieve their career goals.</p> <ul style="list-style-type: none"> • Concern for environment by planting more trees and setting up a solar panel for generating alternative power. • Providing help to the poor students The college has a unique feature of helping the needy and meritorious students through the Students' Aid Fund. Fifteen percent students of this college come from economically backward background. The fund provides financial help in different forms like book grant, providing examination fees, excursion fees and recommending the eligible candidates for grant of free studentship by the Government of West Bengal. The fund is kept running entirely by the contribution of the teachers and the students of this college and therefore has a very limited capacity. More funds were sought to extend better help to the students by relaxing the eligibility criteria for award of these stipends. • Funding the ongoing Ethics and Value Education course
e) Miscellaneous	<ul style="list-style-type: none"> • Support for the Psychological counseling Cell. • Monthly Health checkup of Staff and students • Auditing of Internal Resources generated.

Long-Term Plans of the College:

1. **Development of the Girls Hostel** : Bethune College has got the possession of the land allotted for the Hostel at Salt Lake. The Revised Plan of the Hostel Building has been submitted to the Bidhannagar Municipality for sanction.
2. **Renovation of the Staff Quarters to accommodate the Post graduate Departments was completed and inaugurated as Pritilata Bhavan in August 2010.**
3. The process of constructing the **auditorium building** was persued.
4. Development of the **Satellite Campus**: Registration of the allotted plot was completed.

PART-B**1. Activities reflecting goals and objectives –**

The **Mission** of the College has always been the *development of a complete woman*. Great emphasis is laid on the historical and cultural heritage of India, nurturing such values in education that can inculcate a sense of patriotism among the students and bring them up as conscious and self-reliant citizens of the country. Students are provided the opportunities required to identify and develop their inherent qualities to help them flourish as complete human beings and take on the role of responsible and sensitive global citizens.

The motto of the College, "**Viddaya Vindatey Amritam**", which means **knowledge provides immortal bliss**, epitomizes the College mission and the spirit of true learning. By the end of three years spent in the College, students are equipped with inner strength and confidence to face the society in general and the world of higher learning in particular, enabling them to become a **complete woman**.

The Goal of the College:

- To make higher education of women an effective tool for emancipation of women and help them participate in the socio-economic transformation of the nation.
- To continue to produce responsible individuals who can have a constructive role to play in overall societal development.

The following diversified achievements and activities during 2010-2011 reflect the adherence to the stated missions and goals.

Bethune College has maintained a consistent record of academic achievements. This statement can be substantiated with reference the number of First Classes obtained in the B.A, B.Sc. & M.Sc. examinations in 2010-11.

No.of students who appeared in	No.of first classes	% of first classes	Details of rankers
B.A. (Hons) Part III (1+1+1 system): 158	17	11	History 6 th , Sanskrit 11 th
B. Sc. (Hons) Part III (1+1+1 system):142	63	44	Zoology 1st & 11th Mathematics 9 th .
M.Sc (Botany) Part II: 20	16	80	
M.Sc (Zoology) Part II: 18	18	100	
M.Sc (Mathematics) Part II: 15	10	67	
M.A. (English) Part II: 13	-	-	

Academic excellence notwithstanding, the students actively participated in the following multifarious activities as part of NSS programme and Community participation through CPE funding. The various activities undertaken by the NSS Team of Bethune College have been enlisted under item **18** of this report.

The Students also had commendable achievements in debates, Quiz, Recitation and music competitions both inside and outside the College, details of which are enlisted under item **35**.

A unique feature of our College is the inculcation of **values in education** through a certificate course. The period under review saw no exception in this respect. A series of 4 lectures were organized, details of which are enlisted in item **4**.

Placement and Career counseling – Our students are supported by an active Career Counseling Committee, which coordinates the placement drives in the College and acts as a liaison between the College and industrial houses. The details of the activities of this Committee are enlisted under item **37**.

2. New academic programmes initiated (UG and PG)

- **Women's Studies as a general subject** was introduced from the academic session 2010-11 after getting approval from the University of Calcutte in July 2010 vide Memo No. C/1296/9-AFFL.
- **The Department of English** has started a course on **Communicative English** for the first year students.

3. Innovations in curricular design and transaction:

Department of Botany has introduced student seminars in PG I curriculum from 2011.

4. Inter -disciplinary programmes started :

The Departments of **Philosophy, Political Science, and History** have organized 4 Lectures on Ethics and Value education for the session 2010-11 as continuation of the existing programme. The First Year students of all the departments attend these lectures. Details of the programme are as follows:

Lectures delivered for the session 2010-11

Lecture	Date	Name of Speaker	Title of the theme
Lecture-I	18.8.2010	Dr. Gopa Gupta Associate Professor (Department of Philosophy) Bethune college	Value and Individual
Lecture-II	11.1.2011	Prof. J. L. Shaw Department of Philosophy Victoria University Wellington, New Zealand	Ethics and Freedom: An International Perspective

Lecture-III	17.1.2011	Sri. Manas Ghosh Lecturer Department of Film Studies Jadavpur University	No One Killed Jessica and the idea of Media(ted) Justice
Lecture-IV	4.2.2011	Prof. Arunava Majumdar Emeritus Fellow School of Water resources Engineering Jadavpur University	Values related to environment protection

5. Examination reforms implemented:

Nil.

6. Candidates qualified: NET/ SLET/GATE etc.

Name of the Student And Department	Year of Graduation/ and year of Post Graduation if the candidate did her post graduation from Bethune College	Year of qualifying in NET/SLET
1.Satabdi Dutta (Zoology)	2011 (PG)	2011(UGC NET)
2.Mousumi Mandal (Zoology)	2011(PG)	2011 GMAT
3.Papri Basak (Zoology)	2009(UG)	2011(LS NET)
4.Jayita Saha (Botany)	2007 (UG)	2010, June and 2010, Dec (NET)
5.Madhuchanda Das (Botany)	2008 (PG)	2011 (GATE)
6.Namrata Singha Roy (Economics)	2007 (UG)	2010(SET)
7.Amrita Bhattacharya (English)	2007(UG)	2010 (NET), JRF scholarship received
8.Dhriti Chakraborty (Mathematics)	2011 (PG)	2011 (GATE)
9.Debapriya Sarkar (Mathematics)	2011 (PG)	2011 (GATE)
10 Rajdeep Kar (Mathematics)	2008 (UG)	2011 (NET)

11.Munmun Samanta (Mathematics)	2009 (UG)	2011 (GATE)
12.Rituparna ray (History)	2007 (UG)	SET 2010
13.Leena Mondal (Chemistry)	2009 (UG)	GATE (2011), NET (2011)
14.Arkadeepa Boyal (Chemistry)	2009 (UG)	GATE (2011)
15.Moumita Samanta (Chemistry)	2009 (UG)	GATE (2011)
16. Indrani Chakraborty (Physics)	2009 (UG)	2011 (NET) Rank 40
17.Ipsita Saha (Physics)	2008 (UG)	NET (2010) Rank 41

7. Initiative towards faculty development programme

Department of Botany

Debjani Sinha Roy, Bharati Mukhopadhyay, Kajori Lahiri, Gargi Sengupta, Seemanti Ghosh have attended Refresher Courses.

Department of Computer Science

Shampa Saha and Rupali Sarkar have attended a workshop on syllabus reforms organized by Calcutta University in December 2010.

Department of Economics

All the teachers have attended workshops on Syllabus reform and question format reform organized by The Department of Economics, University of Calcutta.

Ms. Maitri Ghosh and Ms. Satarupa Bandyopadhyay have attended a 21 day-Refresher Course from 8th March, 2011 organized by the Department of Economics, Jadavpur University.

Department of English

Ms. Shuchismita Mitra attended Refresher Course on *Texts and their Afterlives* organized by the Department of English, Jadavpur University in February 2011.

Department of Sanskrit

Smt. Kyamelia Ghosh has attended a workshop on Syllabus Reformation organized by the Department of Sanskrit, Calcutta University.

Department of History

Dr. Urmita Ray attended Refresher Course from Jadavpur University - Women in politics-family community and state from 9.02.11 to 2.03.11

Department of Chemistry

Dr. Sulakshana Karmakar attended a Refresher Course at Jadavpur University from 3rd to 22nd January, 2011.

Department of Psychology

Dr. Syamali Sen participated in a meeting on Curriculum Development in Women's Studies at Undergraduate Level at the Tata Institute of Social Sciences, Mumbai from 24.09.10 to 25.09.10. All the teachers of Psychology Department attended a Workshop on Practical Syllabus organized by the Department in collaboration with Department of Psychology, Calcutta University on 31.01.11

8. Total number of Seminars and Workshops conducted:**Seminars and Workshops conducted between July 2010 and June 2011**

Serial No.	Name of the Department	Title of the Seminar /Workshop	Name of the Resource person/persons	Date
1.	History	Preethilata Wadedar Birth Centenary Celebration and Revolutionary Movement in Bengal	Prof. Bhaskar Chakrabarty, Ms. Maleka Begum and Ms. Selina Hussain	26.08.10
2.	Physics	The Constituents of matter and The Large Hadron Collider	Dr.Souvik Das,Visiting Fellow ,CERN,Geneva,Switzerland	6.9.2010
3.	History	Observation of Preethilata Wadedar Sahid Dibas	Manini Chatterjee and Malini Bhattacharya	24.09.10
4.	Department of English, Political Science and Philosophy along with Digital Archives, New Delhi	UGC-sponsored National Level Interdisciplinary Seminar entitled 'Religion and Popular Culture in the Indian Sub-Continent'	Prof. G. Bhadra, Prof. J. L. Shaw, Prof. Prasanta Ray, Prof. Madhuj Mukherjee, Yusuf Saeed	7.12.2010 and 8.12.2010
5.	Sanskrit	Some reflections on Karaka	Dr. Dipankar Mukhopadhyaya	December 2010
6.	Chemistry	Celebration of 150 th Birth Anniversary of Acharya Prafulla Chandra Roy	Prof. D. J. Chatterjee (Pro Vice Chancellor Academic), Prof. Shyamal Chakraborty, C. U., Prof. R. N. Majumder, C. U. and Quiz Competition among 11 students	10. 12. 10
7.	Physics	Fifth Chameli Basu Memorial Lecture	Dr.M.Janaki Plasma physics Division,Saha institute of Nuclear physics	13.12.10

8.	Zoology	Zootherapy - Diversity in India'	Prof. Antony Gomes	22.12.10
9.	English	'Kate Millet: Sexual Politics'	Professor Krishna Sen	14.1.2011
10.	Sanskrit	Some reflections on Samasa	Dr. Dipankar Mukhopadhyaya	January 2011
11.	Political Science	Rabindranath-er Rastranaitik Bhabna. (Srabanti Banerjee Memorial Lecture.)	Smt Kumkum Chattopadhyay.	17.1.11.
12.	Political Science	Rabindra Uponyas-e Adhunik Nari.	Dr. Kabita Chanda.	17.1.11
13.	Chemistry	Green Chemistry: A solution towards sustainability	Dr. Soma Mukherjee, Reader, Kalyani University	18.01.11
14.	Chemistry	Hydrogen Bonding: Do we understand it?	Dr. Tapas Chakraborty, Indian Association of The Cultivation of Sciences	18.01.11
15.	Psychology in collaboration with Department of Psychology, University of Calcutta	Workshop on Practical Syllabus	Sri. Sumon Mukherjee, Ex-Faculty, Department of Psychology, Calcutta Department	31.01.11
16.	Bengali	Rabindra Sahitye Bidrohini Narira	Dr. Pallab Sengupta	1.02.2011
17.	Psychology	Looking at the reality from a girl's perspective:: Jafar Panahi's - The White Balloon'.	Dr. Manas Ghosh, Lecturer, Department of Film Studies, Jadavpur University	01.03.11
18.	Zoology	A tale of AQPS and Mettaloids: consequences in Human diseases.	Dr. Rita Mukhopadhyay	9.03.2011
19.	English	'Literature and Film: Apu Trilogy'	Prof. Anindya Sengupta	25.3.2011
20.	English	'Modernism and Post-Modernism'	Professor Supriya Chaudhuri	28.3.2011

21.	Mathematics	National Seminar on Mathematical Modelling of Natural Phenomena (NSMMNP 2010-11, Phase – 2) in collaboration with Indian Society for Nonlinear Analysis (ISNA)	Name	Affiliation	11 th March, 2011
			Prof.Indrani Bose	Bose Institute	
			Prof.K.Kumar	I.I.T, Kharagpur	
			Dr. Partha Guha	S.N.B.N.C.B. S	
			Dr. Supti Sadhukhan	Jogesh Chandra Chaudhury College,	
			Dr. Rabibrata Mukherjee	Dept. of Engineering College, I.I.T., Kharagpur	
			Ambarnil Ghosh	Jadavpur University	
			Baishakhi Mal	Jadavpur University	
22.	Bengali	Bangla Natoke Pratibad : Utpal Dutta	Dr. Parimal Kanti Ghosh		31.03.2011
23.	Mathematics	Summer Programme 2011 organized jointly with ISNA	Saptarshi Das	J.U	3/5/11- 6/5/11
			Prof.Amitava Gupta	J.U	
			Prof. M.K.Chakraborty	C.U	
			Prof. Sumita Basu	Bethune College	
			Prof. D. C. Sanyal	Kalyani Univ.	

9. Details of Research Projects

A) Newly Implemented – 4

Sponsors	Name of the researcher	Title of the Project	Amount of grant allocated	Memo No and Date of sanction
Council for Scientific and Industrial Research	Sanchita Datta (CSIR SRF) Under Dr. Madhumita Manna Department of Zoology	An approach to develop live attenuated vaccine against Indian Kala-azar Duration: 2 years 2011	Rs. 6,01,600	8/569(0001)/2011 EMR-I, dated: 20.03.11
UGC	Dr. Kamala Gupta Department of Botany	Identification and documentation of microbes from sewage effluents of different localities in Kolkata	Rs. 1,47,000	F.W.PSW.-042/10-11(ERO) started from November 2010
UGC	Dr. Gargi Sengupta (PI) Department of Botany	To study the effects of exogenously applied plant growth regulators (PGRs) in Regulating the development of secondary phloem fiber in a low lignin mutant (<i>dlpf</i> , INGR No. 04107) of Jute	Rs. 1,62,000	Sanction No.F.PSW-039/10-11 (ERO), dated: 20.10.10.
UGC	Dr. Debamitra Dey Department of Sanskrit	Theories of Illusion In Indian Philosophy	Rs. 1,13,000	PHW-030/1011, Dated: 21-10-2010

Research Projects Completed–**A) Major Projects: Completed - 1**

Sponsors	Name of the researcher	Title of the Project	Amount of grant allocated	Memo No and Date of sanction
UGC DAE	Dr. Madhumita Manna (PI) Department of Zoology	Radiation and molecular immunology: understanding the mechanism.... parasites Duration: 5 Years Completed in the year 2010	Rs. 5,60,800 + Travel grant as and when required	UGC- DAE Collaborative Research Scheme (Major) Sanction No:CRS-089/BC/B/MM/7396 dt 25.02.05

B) Minor Projects completed: 6

Sponsors	Name of the researcher	Title of the Project	Amount of grant allocated	Memo No and Date of sanction
University Grant Commission	Ms. Sutapa Sanyal (PI) Zoology	Health hazards assessment from antibiotic resistance bacteria associated with waste fed freshwater fishery. Duration: 18 months	Rs. 1,15,000/-	F.PSW-054/-9-10 (ERO), dt 08.10.09
University Grant Commission	Ms. Paramaa Raha (PI) Zoology	Study on semiochemicals of North Bengal elephants. Duration: 18 months	Rs. 1,55,500	F.PSW- 053/-9-10 (ERO), dt 08.10.09
University Grant Commission	Dr. Roli Shukla Ray (PI) Zoology	Study of behaviour and ecology of frugivorous bats in urban ecosystem Duration: 18 months	Rs.1,45,300/-	UGC (Minor) (F.PSW-055/-9-10 (ERO), dt 08.10.09)

UGC	Ms. Maitri Ghosh, Department of Economics	Impact of FDI on Indian manufacturing industries in the post-reform period: An analysis of export performance and export spillovers	Rs 82,000/-	F. PHW-045/10 (ERO), dt. 07.09.2009
Women's Studies Centre, Bethune College	Ms. Maitri Ghosh and Ms. Suranjana Dasgupta, Department of Economics	Self-help groups and empowerment of Tribal Women-A case study of the villages of Nadia district in West Bengal	Rs. 20,300/-	266/WSC, dt. 05.03.10
UGC	Dr. Durga Ghoshal	Designing Life and Crisis of Values in the writings of Wells, Orwell, Golding and Skinner	Rs. 70500/-	F. PHW- 044/09-10 (ERO) dt. 07.09.10.

C) Research Projects Ongoing – 8

Sponsors	Name of the researcher	Title of the Project	Amount of grant allocated	Memo No and Date of sanction
UGC	Dr. Madhumita Manna Department of Zoology	Genome analysis....Kala-azar	Rs. 9,92,967	F. NO. 35- 57/2009(SR), Dated: 20.03.09
UGC		Role of Trace elements in immune- --- in India	Rs. 5,43,000	UGC DAE CSR/PROJECT/ACCT/200 9/1882 Dated: 01.09.09
UGC	Dr. Saswati Sinha Assistant Professor of Zoology	Comparative study on the heat-shock responses in some mulberry silkworm races available in India	Rs. 1,84,000	F.PSW- 041/10-11 (ERO), dated: 20.10.10
UGC	Dr. Seemanti Ghosh (PI) Department of Botany	DNA fingerprinting of <i>Musa</i> accessions available in West Bengal	Rs. 8,04,800	Sanction No: F No.34-166/2008(SR), Dated: 29.12.2008.

WBBB, Govt. of West Bengal	Sumona Mukherjee (PI) Department of Botany	<i>Conservation and Documentation of Wild Biodiversity in Bethune College Campus and Surroundings</i>	Rs. 8,83,000	506/3K(Bio)-4/2009 Dated: 09.12.09
CSIR	Dr. Rituparna Kundu Chaudhuri (Co. PI) Department of Botany	Analysis of important bioactive compounds and Genomic DNA polymorphism in <i>Swertia</i>	Rs. 18,00,000	Sanction No. 38(1211)/09/EMR-II
UGC	Monami Das Roy Department of Mathematics	An integrated Optimized Production Technology (OPT) / Just-In-Time (JIT) modeling on Production planning and Inventory Control.	Rs. 1,44,000	PSW – 040 / 10 - 11 (ERO), Dated: 20.10.2010.
UGC	Ms. Jayati Ghatak (Department of History)	Paik Revolt of 18 th century	Rs. 82,000	FPHW-046/09-10 (ERO)

10 Patents generated, if any: Nil**11. New collaborative research programmes: Completed : One**

Sponsors	Name of the Researcher	Title of the Project	Amount of grant sanctioned in the said period	Memo No. and Date of sanction
Department of Health & Family Welfare, Government of West Bengal	Satarupa Bandyopadhyay, Department of Economics	Hospital Efficiency in West Bengal	Rs. 7,20,000	HF/IHMC/IM-15-2009 Dated: 09.06.2009

12. Research grants received from various agencies:

Research grants were obtained from UGC/CSIR in respect of new MRPs implemented and through the different ongoing projects. Details are given under item 9.

13. Details of research scholars:

Serial no.	Name of Scholar	Department	Name of Project
1.	Sanchita Datta	Zoology [CSIR SRFellowship awarded to work under Dr. Madhumita Manna]	An approach to develop live attenuated vaccine against Indian Kala-azar
2.	Jayita Saha	Botany	Conservation and Documentation of Wild Biodiversity in Bethune College Campus and Surroundings
3.	Taniya Mitra	Botany	Conservation and Documentation of Wild Biodiversity in Bethune College Campus and Surroundings
4.	Anusree Das	Botany	<u>DNA fingerprinting of <i>Musa</i> accessions available in West Bengal</u>

14. Citation index of the faculty members and impact factor:

Serial No.	Name of Faculty	Details of Publication	Citation Index	Impact factor of journal/ISBN no.
1.	Dr. Madhumita Manna, Department of Zoology	Radiation Induced Effects on Viability and Antioxidant Marker Enzymes of Two Fresh Water Crustaceans from Different Habitats		Journal of Environmental Biology 2010 Impact factor: 1.36(2009)
2.	Dr. Madhumita Manna, Department of Zoology	Immunotherapeutic Role of Radio Attenuated Leishmania Parasites in Experimental Murine Visceral Leishmaniasis		Medimond International Proceeding, 2010 ISBN 978-88-7587-598-5
3.	Dr. Madhumita Manna, Department of Zoology	Random amplified polymorphic DNA and drug sensitivity analysis of recent clinical isolates from Indian kala-azar patient		Proceeding of 22 nd National Congress of Parasitology 2010 ISBN No 978-93-5067-220-4

4.	Dr. Sarmishtha Banik, Department of Zoology	Necrophoresis in two Indian ant species, <i>Camponatum compressus</i> (Fabricius) and <i>Diacamma vagans</i> (Smith) (Insecta: Hymenoptera: Formicidae)		<i>Proceedings of. Zoological. Society (Springer publication 2010</i> ISSN No. 0373-5893
5.	Dr. Saswati Sinha, Department of Zoology	Two new species of the genus <i>Dasyhelea</i> Kieffer (Diptera: Ceratopogonidae) from the Coastal regions of East Medinipur(West Bengal).India.		<i>Journal of Natural History 2010</i> ISSN 0973-6166
6.	Dr. Saswati Sinha, Department of Zoology	New species of the genus <i>Nilobezzia</i> Kieffer (Diptera: Ceratopogonidae) from Haldia, East Medinipur (West Bengal).India.		<i>Journal of Natural History 2010</i> ISSN 0973-6166
7.	Dr. Sutapa Sanyal, Department of Zoology	Occurrence and antibiotic susceptibility among coliform bacteria isolated from sewage exposed fish		<i>Recent Research in Science and Technology 2010</i> ISSN 2076-5061
8.	Dr. Sarmishtha Banik, Department of Zoology	A comparative account of behavioural pattern in two Indian ant species in captivity		<i>Proceedings of. Zoological. Society (Springer publication 2011</i> ISSN No. 0373-5893
9.	Dr. Sarmishtha Banik, Department of Zoology	Study of behaviour of magpie robin (<i>Copsychus saularis</i> Linn.) in Indian subcontinent with special reference to nest box provided for nesting		In: Biodiversity: Asssment and awareness (Editor in Chief S.K.Mukhopadhyay) Hooghly Mohsin College, Chinsura, Hoogly, WB, India 2011 ISBN 978-81-908801-2-1

10.	Dr. Sarmishtha Banik, Department of Zoology	A survey of ant species in and around the village susunia (hill), district Bankura, WB. India (Insecta: Hymenoptera: Formicidae)		In: Biodiversity Asssment and awareness (Editor in chief S.K.Mukhopadhyay) Hooghly Mohsin College, Chinsura, Hoogly, WB, India 2011 ISBN 978-81-908801-2-1
11.	Dr. Saswati Sinha, Department of Zoology	Study on four new species of the genus <i>Atrichopogon kieffer</i> (Diptera: Ceratopogonidae) from Haldia unde coastal region of East Medinipur district (West Bengal), India		<i>Journal of Natural History</i> 2011 ISSN 0973-6166
12.	Dr. Sutapa Sanyal, Department of Zoology	Drug resistance profiles of coliforms in sewage exposed fish		<i>World Journal of Fish and Marine Sciences</i> 2011 ISSN No. 2078-4589
13.	Dr. Paramaa Raha, Department of Zoology	Ultrastructure and lipid chemistry of specialized epidermal structure of Indian porcupines and hedgehog		<i>Acta Zoologica</i> 2011 Impact factor 1.6
14.	DR. Madhumita Manna, Department of Zoology	Characterization of the Recent clinical isolates of Indian Kala-azar patients by RAPD-PCR method		<i>Journal of Parasitic Diseases (Springer)</i> DOI:10.1007/s12639-011-0048-1 ISSN NO.0971-7196
15.	Dr. Rituparna Kundu Chaudhuri, Department of Botany	Somatic embryogenesis in <i>Swertia chirata</i> Buch. Ham. Ex Wall, Asian Journal of Biotechnology, 3:186-193, 2011		Asian Journal of Biotechnology, 3:186-193,2011
16.	Dr. Sumona Mukherjee, Department of Botany	Heavy metal Toxicity & Effect of Sound on Root Meristem Cells of <i>Allium cepa L</i>		(ISSN 0971-2976) J. Botan Soc. Bengal 64: 119-123,2010

		J. Botan. Soc. Bengal 64: 119-123, 2010		
17.	Dr. Sumona Mukherjee, Department of Botany	The Forest Crop of Purbi Singhbhum District, Jharkhand, Indian J. Landscape Sys. Eco. Studies 33: 183-190, 2010		Impact Factor: 0.2334 (ISSN 0971-4170,)
18.	Ms. Manali Chakraborty, Department of Computer Science	" A State of the art Survey on IDS for Mobile Ad Hoc Networks and Wireless Mesh Networks."		Springer Heidelberg proceedings of the International Conference on Parrallel, Distributed Computing technologies and Applications (PDCTA-2011),pp. 169-179, September,2011.
19.	Ms. Manali Chakraborty, Department of Computer Science	"The Evolution of IDS Solutions in Wireless Ad Hoc Networks to Wireless Mesh Networks."		International Journal of Network Security and its Application(IJNSA) VOL-3, no.-6, pp.- 39-58, November 2011
20.	Prof. Anasuya Guha, Department of English	Caesar and Cleopatra: Shaw Reworks History as Farce	Lady Brabourne College Journal, 2010	
21.	Prof. Anasuya Guha, Department of English	Shakespeare's Sister: An Unfinished Itinerary	Breaking the Silence, Dept of English, Calcutta University, March 2011	978-81-8211-077-9
22.	Dr. Monami Das Roy, Department of Mathematics	1. Roy, M., Sana, S. and Chaudhuri, K., 2010. A stochastic EPLS model with random price sensitive demand.		International Journal of Management Science and Engineering Management. Vol. No.- 5(6), Page 465 - 472.

23.	Dr. Monami Das Roy, Department of Mathematics	Das Roy, M., Sana, S. and Chaudhuri, K., 2011. An economic order quantity model of imperfect quality items with partial backlogging.		0.948 International Journal of Systems Science. Vol. No.- 42(8), Page 1409 - 1419.
24.	Dr. Monami Das Roy, Department of Mathematics	Das Roy, M., Sana, S. and Chaudhuri, K., 2011. An EOQ model for imperfect quality products with partial backlogging - a comparative study.		International Journal of Services and Operations Management. Vol. No.- 9(1), Page 83 - 110.
25.	Dr. Debamitra De, Department of Sanskrit	Prasanga : Pramana	Book	ISBN:978-93- 80663-29-6
26.	Dr. Debamitra De, Department of Sanskrit	Sangham Saranam Gacchami: Ekti Alochana	Manabman Journal	ISSN0971-9792
27.	Dr. Debamitra De, Department of Sanskrit	The origin and transformation of Purusa And Prakriti in Samkhya Philosophy	Hindusthani Academy, Allahabad	Special edited volume, October,2010
28.	Dr. Debamitra De, Department of Sanskrit	Sanskrite Rabindra Sahityer Anubad	Korak Sarad Samkhya, Sept- Dec 2010	R.N.41092/82
29.	Ms. Manidipa Das, Department of Bengali	Aashapurnar Tero-Ti Upanyash	Sahityo O Sanskriti, Oct 2010	
		Rabindra Chotogolpe Birodhini Naarira	Sudakshina, Oct. 2011	
		Totakahini, Anyaroop E	Bethune College Patrika March 2011	
		Banalata Sen (lecture)	Jibanananda Sabhagriha – Anweshan, 26.06.2011	
30.	Dr. Kabita Chanda	Kabichetonay Nritya O Nataraj (book),	Papyrus Jan 2011	
31.		Moner Maajhe Je Gaan Baje	Balaka, Nov 2010	

32.		Nrityaguru O Nrityashilpi Rabindranath	Bethune College Patrika, March 2011	
33.		Mahamanab – Buddha Bhakta Rabindranath	Milemishe, May 2011	
34.		Rabindranather Gaan (lecture)	Abyay Literary Society, Dec 2010	
35.		Rabindra Upanyashe Aadhunik Naari (lecture)	Political Science Deptt. of Bethune College, 17.01.2011	
36.		Rabindra Srishtite Bouddha Chetana	Bangla Academy & W.B. Govt., Feb 2011	
37.	Dr. Lina Sen	Oupanyashik Sarajkumar Roychowdhury		ISBN 978-81-8211-075-5
38.		Shesher raatri o Grihaprabesh in	Tabu Ekalabya (Rabindra Sankhya), June 2010	
39.		Rabindranath o Bethune College,	Bethune College Patrika, March 2011	
40.	Ms. Suchimita Maitra	Rabindra Bhabnay Naari	Puro- Pathik (Rabindra Sankhya), June 2010	
41.		Kabi o Bigyansadhak	Bethune College Patrika, March 2011	
42.		Geetanjali – Byaktigata Anubhabe	Punascha – Alumni Association Of Bengali, J.U., 20.02.2011	
43.	Smt. Kumkum Chattopadhyay	Article- "Rabindranath O Shikkha:tatwa O Prayog"	Minakshi Sinha Ed. Book, "Rabindrardistite Samaj O Samakal"	ISBN:978-81- 907808-9-6.
44.		Chapter on-"Markin Juktorastrer Songbidhan"	Dr. Rajashree Basu Ed. Book,"Tulonamulok Shasanbyabostha O Rajneeti."	ISBN:978-93- 86677.

15. Honors/awards to the faculty:

Dr. Lina Sen (Department of Bengali) was honoured as the Best Programme Officer for NSS by Calcutta University on 12.01.2011.

16. Internal resources generated:

Nature of fund	Funding agency	Quantum of fund
1. CPE	UGC	Rs 50,00,000 to be spent in the ratio 60:40 under Non-recurring and Recurring heads.
2. Sponsorship for seminars	UGC	Rs. 1,50,000
3. Sponsorship for Annual Fest Alaap-2010	Different private sector organizations.	Rs.1,10,000
4. New Prize Funds constituted.	i. Santosh Kumar Dutta Gold Medal and Radharani Dutta Silver Medal	Rs. 60,000

17. Details of Departments getting SAP, COSIST (ASSIST)/ DST, FIST, etc. assistance/ recognition: N.A**18. Community Service: The various activities of the NSS for the year 2010-11 :**

Date	Activity
14.7.2010	Seminar and quiz on "Thalassemia"
3.8.2010	Clearing of bushes and initiating gardening in a portion of the campus to remember and honour Rabindranath Tagore's idea of "Mother Earth"
14.8.2010	Participation in a Seminar on "Global warming and our responsibility" and Walk in collaboration with Nehru Youth Centre.
15.8.2010	Celebration of Independence Day
13.9.2010	One day preparatory camp in the slums before "special camp"
15.9.2010	Organisation of competition on music,dabate,dance,poster painting etc in accordance with the directive of Calcutta University to commemorate the Commonwealth Games.
23.9.2010-29.9.2010	"Special Camp"

1.12.2010	Participation in seminar and walk organized by C.U. on the occasion of World Aids Day
21.12.2010	Blood donation camp in the College-Participation of students and teachers alike
12.1.2011	Felicitation of Dr.Lina Sen as Best Programme Officer and two Bethunites as Best Volunteers at the seminar organized by C.U. on the occasion of World Youth day
21.1.2011	Cleaning of campus
26.1.2011	Celebration of Republic day
21.2.2011	Presenting books and stationery to Sohom an organization that runs schools in remote villages.
9.3.2011	Organisation of Health camp in the slums on the occasion of World Women's Day
17.3.2011	Cultural program and distribution of certificates.

19. Teachers and officers newly recruited/joined on transfer till 30.6.2011:

Name of the teacher	Age (in yrs)	Subject	Specialisation	Highest educational qualification	Research experience in years & No. of Publications	Teaching experience (UG/PG)
Dr.Seemanti Ghosh (Nov.2010 on transfer)	34	Botany	Cell Biology, Molecular Genetics and Plant Tissue Culture	Ph.D.	10 yrs 5 international 2 national	4 yr-UG 8 mths -PG
Prof. Sumita Basu (9 th Sept.2010)	57	Mathematics	Advanced Computer Science & Cybernetics	Ph.D	25yrs	U.G:34yrs P.G: 5 yrs
Dr. Tulika Chakraborty (20 th July, 2010)	31	Mathematics	Operations Research	Ph. D.	Years – 6 Publications-3	Nil
Dr.Semanti Sen	47(A APR OX)	History	SOCIAL HISTORY	M.A. Ph.D	MORE THAN 5	MORE THAN 20
Smt. Rupa Banerjee	49	Bengali	LINGUISTICS	M.Phil	NIL	25 YRS (UG) 3 YRS (PG)
Smt.Moumita Dutta	33	Political Science.	Socialist Thought.	M.Phil	3 articles published in Different journals.	5 years

Smt. Papri Bhadra	48	Philosophy	Logic	M.A.	One	U.G.- 22 Years
Dr. Suparna Mitra	44	Philosophy	Indian Philosophy (Nyaya)	Ph. D	'1.Tarka and Tarkabhasa' Article pub.Post Seminar Proceedings in 2011. UGC sponsd. Seminar at Belur VidyaMandir Belur Dist.Howrah 2. <i>Jnanatattvik Samosya: Prachya o Prtichyer Alope</i> in press.	U.G.- 10 Years

The following teachers have joined as Teaching Fellows during the said period.

Name of the teacher	Department	Age	Specialisation	Highest educational qualification	Teaching experience (UG/PG)
Ms. Manali Chakraborty	Computer Science	23	Networking	M.SC.	1 year teaching experience at Vidyasagar College (UG)
Ms. Barnali Mondal	Mathematics	26	Actuarial Science	M.Sc.	Nil

20 Teaching-Non teaching staff ratio: 76:44 (As on January 2011)

21. Improvements in the Library services:

Bethune College continues to be an Institutional member of American Centre Library.

22. New books and journals subscribed and their cost :

Name of the library	No. of new books acquired	Approx. cost of the books in Rs.	No. of journals subscribed	Approx. total annual subscription of the Journals in Rs.
Science Library	453	2,66,205	5	6,500
Arts Library	586	2,33,891	4	3,000

The Science and Arts Libraries also received books from individuals by way of gifts. The following are the details of such gifted books:

Gifted Books received by	Number of Gifted Books & Journals
Science Library	8 Books, 6 Journals
Arts Library	12 Books ,3 Journals
Total	20 Books & 9 Journals

23. Courses in which student assessment of teachers is introduced and action taken on student feedback:

A feedback on several issues related to the overall functioning of the college including academic and administrative issues was invited from the third year B.A./B.Sc. students.

A copy of the Feedback Form is enclosed and the analysis of the Feedback received from the students is also included in the report (**vide Annexure I & II**)

The Departments were also asked to maintain a profile of the students admitted in the 2010-11 session. A specimen copy of the questionnaire put before these students is attached as **Annexure III**.

24. Unit cost of education:

The unit cost is calculated taking into consideration the utilized values of the Development and the Non-Plan grants received from the Government of West Bengal and excluding the Grants received from U.G.C.

Year	Students enrolled(n)	Total expenditure including salary (Rs) (a)	Total expenditure excluding salary (Rs.) (b)	Unit cost a/n (Rs.)	Unit cost b/n (Rs.)
2010-2011	932	68653976	3410218	73663	3659

26. Increase in the infrastructural facilities:

i. Major renovation work has been undertaken and completed in the staff quarters of Bethune College. A new block of about six classrooms was developed through remodeling of the existing structure.

ii. Following is a list of the equipments purchased between July 2010 and June 2011 for the upgradation of the laboratories

Name of the Department	Name of the equipments
1. Botany	<ol style="list-style-type: none"> 1. 2 Debro make R/T monocular microscope 2. Pipette Controller Riviera 3. Getner make R/T monocular microscope 4. Gel Rocker
2. Zoology	<ol style="list-style-type: none"> 1. Laminar Air flow 2. Micro wave without Gril 3. Magnus Stereoscopic Binocular 4. Puller Pump Pipette 5. Fisher Brand Finnpiquette
3. Psychology	<ol style="list-style-type: none"> 1. Recording Instrument for Pneumograph through Computer 2. Statistical Package for Social Sciences 3. Software Packages for Attention and Perceptual Reversibility 4. Neo Five Factor Inventory 5. Rorschach Ink Blot Test
4. Computer Science	<ol style="list-style-type: none"> 1. Five units of LG 15.6" monitor(details:Rs 5200/unit, Order no: 47/DG,48/DG,49/DG,50/DG,51/DG dt. 20/1/11) 2. One unit of IC Tester Component (details: Rs 7500/unit, Order no: 80/Contingency dt. 22/1/2011) 3. One unit of IC Tester Base (details: Rs 8500/unit, Order no: 79/NP dt. 22/1/2011)
5. Physics	<ol style="list-style-type: none"> 1. Cathode ray oscilloscope (30 MHz) 2. A.C. Millivoltmeter -2 nos.
7. Mathematics	<ol style="list-style-type: none"> 1. LG plasma TV – Rs. 48375/- 2. ADSL router with USB port – Rs.6240/- 3. 15.6" LCD ----- Rs. 5200/- 4. SHARP digital Photocopier with Laser Printer & Mono Scanner ----- Rs. 48360/- 5. Windows 7 Operating system- Rs.7800/-
8. Chemistry	<ol style="list-style-type: none"> 1. Automatic Distillation Apparatus 2. PH – meter 3. Colorimeter (1) 4. Vacuum Pump (1) 5. Aquaguard (1)

27. Technology upgradation:

As part of the Action Plan chalked out by the Committee formed to monitor the utilization of CPE funds, two Multifacility centres –for Science and Humanities were proposed and approved. Following are the details of the equipments sought:

Development of Multifacility Centre for Science

- Gel Documentation XR system-BIORAD
- Stereoscopic Microscope with camera (Carl Zeiss)
- Spectrophotometer – for quantitative analysis of Biomolecules
- -80°C Freezer for long term storage of biological samples
- AMC for all existing and newly procured equipments

Development of Multifacility Centre for Humanities

- Computer
 - LCD Projector
 - Duplex Printer (network ready) for printing of downloaded research articles
 - External hard disc for maintaining soft copies of downloaded research articles
 - Photocopying Machine
 - Books
 - CD/DVD Bank
 - Paper, ink for Photocopier and duplex printer and maintenance
- **List of new computers added in the different Departments**

Department	Number of Computers and Accessories
Computer Science	Five assembled computers (DG, dated: 22/1/2011)
Economics	UPS – 1, Printer – 1
Sanskrit	One Computer with Internet Modem
Chemistry	One Computer with Printer

28. Computer and Internet access and training to teachers and students:

All first year students, 2010-11 (Arts and Science) of the College have been enrolled in the self-financing course on Computer Applications running in the college. The course content is customized to cater to the students of different streams.

All teachers and students of this College have access to the Computers. Internet facilities are now available in all the Departments and the two libraries.

29. Financial aid to students:

Students receive financial aid from the Student-Aid Fund and different Endowment Funds. Free-studentship is also extended by the government to the needy students. **It is worthwhile to mention that teachers of this College contribute to the Student aid fund.**

The following is a summary of the beneficiaries to the different Funds:

Serial No.	Contributory Fund	Class	Number of beneficiaries
1	Free studentship awarded by the Govt.of West Bengal	UG PG	13 6
2	C.P.E Funds were used to provide Examination fees and Book grant.	UG PG	25 11

Serial no.	Merit scholarships:	Number of beneficiaries in 2010-11
1.	Srabanti Banerjee memorial	10 (UG)
2.	Dr Nilmani Mukherjee stipend	2 (UG)
3.	Sarala Ghosh Memorial	2 (UG)
4.	Kamalabala Mukherjee Memorial	1 (UG)
5.	Pratip Palit Scholarship	3 (PG)

Serial no.	Merit cum Means scholarships:	Number of beneficiaries in 2008-09
1.	D.N.Roy Memorial Scholarship	4
2.	Ramjitendra Ghosh & Bimalacharan Law Stipend	1
3.	Sumita Mitra Scholarship Prize	3
4.	Bimala charan Law Stipend	1
5.	Eva Mitra Memorial Scholarship	1
6.	Nilima Mishra Memorial Scholarship	1
7.	Juthika Ghosh Memorial Scholarship	3
8.	Papiya Dutta Roy Memorial Scholarship and PG Excursion	4
9.	Debendra Nath Das Memorial Scholarship	1
10.	Chhanda Mitra Memorial Scholarship	1

30. Support from the Alumni Association and its activities:

The Bethune College Alumni association, known as the Bethune College Sammilani celebrated its foundation day on 3.9.2010. Dr.Sankar Chakraborty, President, Bigyan Mancha delivered the Mrinalini Emmerson Memorial Lecture on Bigyan Bhavana of Rabindranath Tagore. Dr.Usha Bhattacharyya inaugurated the Ishita Dutta Memorial Book followed by a cultural programme.

The 150th Birth Centenary of Chandramukhi Basu – the first Principal of Bethune College and Dr.Kadambini Ganguly, both alumnae of Bethune College was celebrated on 9.9.2010 with

patronage from the Government of West Bengal. A seminar was organized on this day followed by the staging of a drama.

Apart from these activities Bijoya Sammilani, the annual picnic, the Reunion and the annual fete were held with a lot of gusto. Some eminent personalities were felicitated on the day of the reunion.

31. Support from the Parent –Teacher Association and its activities:

There is no formal Parent-Teacher Association in our college. However, parents are invited to attend the Open House on dates specified by the departments to keep them updated on the progress of their wards. These sessions are of interactive types in which parents can give their valuable suggestions for improvements. Teachers on the other hand, address to specific needs/shortcomings of the students. This is a reflection of the **personalized care** that teachers of this College extend to the students to make them self-reliant, confident citizens of the country.

32. Health Services:

Since Bethune College is a full - fledged government institution , all faculty members and other non-teaching staff are entitled to the medical benefits and help as per the service rules of the West Bengal Government .

Free medical check up of the students is undertaken by eminent doctors of Kolkata who are members of the Alumni Association of the college. Particular attention is paid to ailments regarding eye, teeth and various gynaecological problems .

In any emergency, arrangements are made for taking the students to nearby hospitals and nursing homes.

The NSS Unit of Bethune College addressed several health related issues like eye care, AIDS Awareness and importance of blood donation through interactive seminars held at regular intervals throughout the year.

33. Performance in sports activities:

Department	Name of the student	Award/achievement/participation at inter college level
Psychology	Sanchari Roy	Fourth in Short Put at All Bengal Government College Athlete Meet
Economics	Mouli Chowdhury	i) Participated in 74 th West Bengal Senior State badminton Championships-2011 ii) Participated in Calcutta University Selection Trial in Badminton-2011

34. Incentives to outstanding sportspersons: Nil**35. Student achievements and awards:**

Department	Name of the student	Award/achievement/participation
Physics	Ahona Chakraborty, Dipanwita Bhattacharyya, Prativa Pal, Priyanka De, Piyali Maiti, Saheli Dutta, Namrata Dhar, Moumita Bera	Recipients of the INSPIRE SCHOLARSHIP funded by the Department of Science and Technology, for the 2010-11 session
Zoology	Sarmistha Roy	Employed at Central Bank
Zoology	Prithwa Sadhukhan	Employed at Central Bank
Zoology	Johan Murmu	Joined as Assistant Teacher in H.S. School
Zoology	Rubi Naskar	Joined as Research fellow at School of Tropical Medicine
Zoology	Debarati Adhikari	Joined as Guest Teacher at New Alipore College
Botany	Chandrima Chakraborty, UG-II	2 nd in Rangoli in the inter college competition, Aalap 2010
Botany	Anwasha Roy, UG-II II Honours	2 nd in Mehendi in the inter college competition, Aalap 2010
Botany	Aparna Bhattacharya PG-II	2 nd in Story Cartooning & 3 rd in Poster Painting in the inter college competition, Aalap 2010
Botany	Payel Ghosh, Arpita Ghosh and Moumita Dey, PGII	3 rd in Antakhsari in the inter college competition, Aalap 2010
Botany	ALL IH students	1 st in the Exhibition on Posters and Model in Acharya Satyendranath Basu Smarak "Bigyan o Prajukti Mela-2011" on Medicinal Plants organized by Paschimbanga Bigyan Mancha North-East Zonal Committee from 09.02.11 to 13.02.11
Botany	Koushiki Das IH	Won Scholarship for Higher Education (SHE under INSPIRE)
Mathematics		Students participated in SATYENDRANATH BASU SMARAK BIJAN PRAJUKTI MELA 2011 (SCIENCE FAIR) which was held on 9 th February to 12 th February in this year 2011. They have won the 1 st prize. In this fair Mathematics department represented a Geothermal Model and its applications.

Sanskrit	Ipsita Chakraborty	Stood 3 rd in Najrulgeeti in the competition arranged by the West Bengal Yuva Kalyan Department
Sanskrit	Ipsita chakraborty	Stood 3 rd in Folk Song (Group) in the competition arranged by the West Bengal Yuva Kalyan Department
History	Anuradha das	Essay Competition
History	Madhumita Jha, Aparupa Banerjee, Kajari Dutta	2 nd in Inter College Quiz Competition- Alaap
Bengali	Jinia Roy	Sreerampore Missionary College
Bengali	Chaiti Maitra	Sishumangal Girls' School
Political Science	Shalini Das (3 rd Year)	Won First prizes in Rabindrasangeet And Western Vocal Competitions in Aalap,2011.She also won first prize and third prize in Western Vocal and Rabindrasangeet in competitions held in Scottish Church College and Seth Anandaram Jaipuria College. She also presented paper titled, "War and Democracy" in International Relations Scholastic Conclave,2011,organized by International Relations Department of Jadavpur University.
Political Science	Shrouti Biswas (3 rd Year)	Secured first position in Colours of India,Aalap 2011
Philosophy	Ayantika Basu	Stood 1st in Classical Dance Stood 2 nd in Rabindra Nritya In intra college Competition held in Bethune College
Chemistry	Saborni Biswas (1 st Year)	Jagdish Bose National Science Talenr Search Scholarship
Chemistry	Srijita Bhattacharyya (2 nd Year)	INSPIRE
Chemistry	Maitreyi Mondal (2 nd Year)	INSPIRE
Chemistry	Paromita Sarkar Sanchari Das Gupta	2 nd in the Quiz Competition held by the Department of Chemistry on the Occasion of APC Roy Birth Anniversary Seminar
Chemistry	Pooja Sarkar (1 st Year)	Participated in the Seminar Competition organized by Lady Brabourne College on 24.09.10.
Chemistry	Karabi Nath (3 rd Year) Bably Chowdhury (3 rd Year) Priyanka Samanta (2 nd Year)	Participated in Chem-quiz organized by Presidency College
Chemistry	Anindita Mondal (2 nd Year)	Participated in Quiz Competition at Jadavpur University organosed by DST in January, 2011

Chemistry, Physics,Botany ,Zoology, Mathematics	All 1 st Year students	Participated in Science Fair organized by Paschim Banga Vigjyan Mancha form 9.02.11 – 13.02.11 and won 1 st prize
Psychology	Students of the Second year Honours, Psychology Department	First position in Inter – College Drama Competition in Alaap 2010 (Bethune College Fest) and third position in Choreography in Calcutta Medical College Fest.
Psychology	Ananya Sen Gupta	First Position in Inter – College Debate and Third position in Inter College Cartoon Story Telling Competition in Alaap 2010 (Bethune College Fest).

36. Activities of the Guidance and Counseling cell:

There is **Career Counseling Committee** that maintains regular contact with corporate houses. Different companies ranging from software, softskill development, Biotech etc. are invited on a regular basis to give guidelines regarding employment opportunities. Several such meets between the students and companies have taken place in the College campus and elsewhere since 2004.

Report of the activities of the career counselling cell for the session 2010 – 11:

1. On 28.09.10 a Campus Recruitment Drive was conducted by WIPRO for the students of the final year batch of 2010 – 2011. The job profile was that of a voice process, basically, inbound calling and providing solutions (not a call center job profile of out-bound calling or tele-marketing). Out of 30 applicants 9 students (of the Department of Psychology) were offered placement but only one of them named Titas Biswas pursued with it.
2. On 05.10.10 a Workshop on Professional Communication was conducted by Triumphant Institute of Management Education Pvt. Ltd. (T.I.M.E.). The Workshop emphasized on all aspects of formal written and oral communication, both interpersonal and public speaking.
3. On 17.01.11 a two – hour presentation on ‘Teach for India’ movement was given by personnel from Times of India. Teach for India is a nationwide movement that aims to bridge the educational gap in India by placing outstanding college graduates and young professionals in low-income schools to teach full-time for two years. The organisation’s

mission is to build the movement of leaders who will eliminate inequity in education. Hence, Teach for India's fellows are provided with intensive training and support throughout the two years, and are supported to enter the corporate, public and social sectors after their fellowship so that they become life-long leaders, across sectors, advocating for educational equity.

4. Another presentation was given on 17.01.2011 by Oject 'D'Art, a Jewellery Training Institute. They offer career guidance with placement assistance in the field of jewellery industry.

The faculty renders **Academic counseling** after class hours. Teachers try to help the students especially in situations when the students' family or health related problems tend to overwhelm their academic endeavours.

Another unique feature of this College is the provision for **Psychological counseling** that is so pertinent in today's stressful life. The psychology Department provides for special clinical counseling for personality disorders and other problems related to the mental health of the students. This special Counseling Cell was opened on 27.3.04. These sessions take place regularly in the Department depending on the needs of the students.

37. Placement services provided to the students:

Direct recruitment from undergraduate colleges has been very slow this year as a result of the worldwide downturn in the financial market.

38. Development programmes for non-teaching staff: N.A.

39. Healthy practices of the Institution:

The College takes care of the well-being of the students and staff and at the same time maintains the internal quality checks to uphold the reputation of the oldest institution for higher education for women in India through students' feed-back, feed-back from teaching and non-teaching staff, guardians' feed-back, feedback from Alumni, quality checks by Calcutta University, auditing of financial transactions by Govt. appointed auditors and monitoring of the process of modernization and utilization of resources by UGC.

Internal Quality Checks

- Feedback from peer group in the universities is collected to maintain proper teaching methodology.
- Constant monitoring of students' performance is done to help them in skill development.
- Student feedback is used to upgrade and correct any deficiency in the service provided to them.
- Financial transactions are audited by Govt. appointed auditors.

Welfare Schemes

- In 2006 we have formed the SC/ST Cell as required by the University of Calcutta with the local Councilor as a member.
- Financial support is available for students from Student Aid Fund, Endowment Fund as well as from Teachers' Fund.
- Free health check up of students is available.
- All members of staff enjoy medical benefit from the Government
- All members of staff can avail of interest free loan facility from General Provident Fund as per Govt. rule.
- All members of staff are covered by Group Insurance.

Extension Activity

College puts in constant effort to enhance the sense of civic responsibility amongst the students by involving them in social work outside the College as well as by training them to be aware of the need to be thoughtful and respectful to all members of the College. Regular interaction with the slum dwellers at 76/1A Bidhan Sarani, providing help to school drop-out girls and providing medicines are commendable steps undertaken by the NSS Unit.

Cohesion in the College Community

A particular matter of pride for us is the involvement of all members of Bethune College Community – students, teaching and non-teaching staff and alumnae in College activities leading to societal development.

40. Linkages developed with national/international, academic/research bodies:

Name of Department	national/international, academic/research bodies with which linkages exist
Zoology	<ol style="list-style-type: none"> 1. Indian Institute of Chemical Biology 2. University of Calcutta 3. ZSI 4. School of Tropical Medicine 5. Biodiversity Board 6. Kalyani University 7. NICED 8. Bose Institute
Mathematics	The Final Year Post-graduate students of the Departments of Mathematics visit University College of Science, Technology and Agriculture, University of Calcutta to undertake projects which are a part of their P.G. curriculum.

41. Add any other relevant information of the College:

Department of Economics

The Department organized an academic excursion in January 2011 and visited a LAMPS (Large Scale Multipurpose Society) in Sandeshkhali, North 24 Pargana.

Department of English

- Dr Anasuya Guha, the Head of the Department is the Government Nominee in the Governing Body of Maharani Kashishwari College, Kolkata.
- Dr Anasuya Guha also is a member of the Board of Studies, U.G. English, Netaji Subhas Open University, Kolkata

Department of Political Science

In January, 11 the Department has organized an educational tour to Hooghly district and visited Bandel Church, Hanseshwari temple.

Department of Psychology

Department of Psychology organized an Educational Excursion (partly funded by CPE grant) on 14.01.2011 and 15.01.2011 and visited the Dishergarh Power Supply Corporation Limited Plant at Asansol. Students and teachers of the Department actively participated in the educational tour. The agenda of the tour was to give exposure to the students to the role of Psychologists in the Industrial set up. The opportunity to interact with the human resource team of the DPSC Limited enriched the students' practical understanding of the subject.

PART C

Detail the plans of the Institution for the next year

1. Bethune College proposes to apply for the DST-FIST Program. Proposals were invited from the different Science Departments in this regard.

1. The various Departments proposed to buy interactive smart boards and other facilities to improve the teaching-learning process.
2. College plans to take students for educational tours more frequently for better understanding of our environment, wealth of biodiversity, need for conservation and perception of oneself as part of Nature.
3. The College plans to send students to various scientific research laboratories for some hands on training.
4. College proposes to develop an e-learning classroom.
5. College proposes to set up a Central Computer Centre.
6. College proposes to enrich the Libraries further.
7. College proposes to strengthen the infrastructure in the laboratories and the Multifacility Centres to augment the quality of research.

2. Department of Botany

The Department of Botany proposes to introduce an additional special paper on "Molecular Biology & Plant Biotechnology" in their PG curriculum from 2011-12 session.

Department of Computer Science:

The department plans to setup LAN in software laboratory. Purchase of new equipments like Computers, projector, electronic equipments, books, science journals would be initiated.

Department of Economics

The Department plans to organize a four-day capacity-building workshop on 'Market Structures, Development Economics and Political Economy' to be funded by CPE, Bethune College

Department of Mathematics:

1. Proposes to construct a post-graduation computer Laboratory with the capacity of at least 20 students.
2. At present our PG syllabus follows the annual system. Department proposes to introduce semester system with a revised syllabus.
3. Department proposes to celebrate the birth centenary of Labnyalata Sengupta, former faculty of this department.

4. Department proposes to celebrate the birth centenary of an eminent mathematician N. C. Bose Majumdar.
5. Department offers a special paper on Dynamical system in our PG studies. Department has plans to organize a micro-seminar in collaboration with Jadavpur University in this area which will enrich our students.

Department of Sanskrit

Department would initiate a spoken Sanskrit programme for the students from 2011-12 session.

Department of History

The Department plans to publish a book "They dared" -Essays in honor of Preethilata Wadedar" in collaboration with the Higher Education Department, West Bengal.

Department of Political Science

The department plans to organize two memorial lectures and a seminar, funded by CPE. It has also planned to organize an educational tour during winter, 2011.

College, along with Bethune College Sammilani plans to publish a book "**Alor Sarani Beye**" comprising articles on the lives and works of distinguished alumnae and ex-teachers of the College. Publication costs would be borne by the Department of Higher Education, Govt. of West Bengal.

K. Bose, S. Kundu
**Coordinators, IQAC,
Bethune College**

S. T. Mitra
**Principal & Chairperson, IQAC
Bethune College**