

# **The Annual Quality Assurance Report**

**Fakir Chand College**

**Diamond Harbour  
South 24 Parganas  
West Bengal**

**2007-2008**

## **Part A**

### **The Plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year**

Since the formation of IQAC in the post-accreditation period of the college, the main objective of the cell has been to make significant and meaningful contribution to the academic and administrative performance of the college. To ensure quality enhancement of the institution following accreditation by NAAC, the cell has given due emphasis on the suggestions and recommendations of the NAAC peer team and accordingly has chalked out a comprehensive development programme as given below with a concretely targeted time period. The salient aspects of the programme are mentioned herein below:

- i) Expansion of courses leading to degrees.
- ii) Expansion of the horizon of computer application in both academic and official purposes.
- iii) More user-friendly orientation of the library.
- iv) Exploration of possibilities and prospects of introduction of some vocational courses including “Communicative English” learning programme.
- v) Organisation and patronage to faculty development programmes.
- vi) Arrangements of uninterrupted power supply in the college premises.
- vii) Construction of a separate block for science departments.
- viii) Commencement of the construction of girls’ hostel immediately after getting 1<sup>st</sup> installment of UGC allocation in this head.
- ix) Construction of a more upgraded boys’ common room.
- x) Necessary upgradations of science laboratories.
- xi) Upgradation of Career Counselling Cell.
- xii) Induction of a trained NCC officer in the NCC wing of the College and further strengthening of NSS wings and organisation of more community-oriented programmes on periodical basis.

Thread-bare discussions were held in the Governing Body meetings as well as in the Teachers’ Council meetings regarding the suggestions made by NAAC Peer Team. Members were of the opinion that the suggestions made by NAAC Peer Team for academic and infrastructural development of the institution be implemented to their fullest length taking financial support from UGC, Govt. of West Bengal and the affiliating university. Accordingly, a number of proposals have been submitted to UGC under XIth five-year plan period. Till the funds are made available, the college authority is trying its best to convert the suggestions into reality as much as possible during the academic year 2007-2008.

- i) The advancement of an educational institution is usually reflected through its dynamic approach. Introduction of new courses is an important criterion in this aspect. In the year 2007-08, the college authority approached the affiliating university and Govt. of West Bengal for providing necessary

approval for introducing post-graduate course in Bengali and B.Sc. (Hons.) course in Computer Science. We are thankful to the concerned authorities for allowing us to introduce the said courses during the academic session 2008-2009.

- ii) To ensure expansion of computer application in both academic and official purposes; the college authority has added more computers to departments. The office working system has largely been computerised along with internet facilities. A few examples may be given in this regard. Disbursement of salary, periodical increment of both teaching and non-teaching staff, students' admission process etc. are now well-documented through computerisation process. The entire accounting system as well as students, teachers and non-teaching staff profiles are also there in the perview of office-computer-network.
- iii) A well-documented library system with user-friendly mechanism usually reflects the academic quality of an educational institution. Our institution has been putting much emphasis in this regard adding more and more text and reference books, journals and periodicals by each year to the library in addition to offering digital concept of library system to the students, free of cost. At present, Fakir Chand College has a central library, a science and commerce library, a post-graduate library and a B.Ed. library. All the libraries are equipped in such a way that students' and teachers' interest get adequate consideration. In the year 2007-08, more than 3000 new books and about 25 new journals costing over Rs. 2.5 lakhs was purchased/subscribed for different libraries. Individual departments have given special attention so that the students' need/demand can be fulfilled at best.
- iv) The college authority has submitted some specific proposals to UGC for getting necessary financial assistance under the XIth Plan period for introduction of different vocational courses including Communicative English as suggested by NAAC Peer Team in their report. It is the expectation of the college authority that the authority of UGC will look after the matter giving due attention to the suggestions as made by NAAC Peer Team.
- v) Regular upgradation of knowledge of the faculty members is one of the essential pre-requisites for upliftment of their teaching ability and quality. Faculty members always keep themselves engaged in different faculty development programmes. Such programmes include organisation of seminars/symposia in Colleges, participation in Orientation Programmes / Refresher Courses / Seminars / Symposia / Workshops / Conferences, FIP schemes for their M.Phil./Ph.D. degrees etc. The college authority is always very much sincere in this regard. More than Rs. 2.5 lakhs was spent for adding new books and journals in different libraries in the year 2007-08. In the year 2007-08, the college has successfully organized seven UGC/College-sponsored national/state level academic seminars. The details of the seminars are given below.

- UGC Sponsored National Seminar on “*swadhinata-uttar Bangla Kabita: Epar-Opar*” organized by the Department of Bengali on 11th April 2008.
- UGC Sponsored State level Seminar on “*India revisited: Society, Economy, Politics. Colonial and Post-Colonial Perspectives*” organized by the Department of History on 7th April 2008.
- State level seminar on “*Frontiers of Physics*” organized by Department of Physics on 12<sup>th</sup> January 2008.
- Seminar by B.Ed. section.
- State level Seminar on “*Open Education System in School and Higher Education*” organized by Department of Education (PG section) on 3<sup>rd</sup> April 2008.
- State level Seminar organized by Department of Bengali on 13<sup>th</sup> October, 2007 in order to felicitate Sri Jhareswar Chattopadhyay, the recipient of *Bankim Puroskar* awarded by the Government of West Bengal who is also an ex-student of this college.
- State level Seminar on “*Some Basic Aspects of Undergraduate Chemistry*” organized by Department of Chemistry on 17<sup>th</sup> November 2007.

Apart from these, the teachers and students of each and every department of the college organized Departmental Seminars. Moreover, during the year 2007-08, the faculty members have attended a total number of twenty-five Orientation Programmes / Refresher Courses / Seminars / Symposia / Workshops / Conferences as a part of their knowledge upgradation mechanism.

For an educational institution academic improvement and infrastructural development are inexplicably linked with each other and one cannot go alone at the cost of the other. So the College administration has also provided due emphasis in infrastructural development of the College. A brief account of such development is mentioned below.

- vi) Two 15 KV environment friendly generators have been commissioned in the year 2007-08 for uninterrupted power supply to the departments, classrooms, laboratories, libraries and offices.
- vii) The college authority has submitted some specific proposals to UGC for getting necessary financial assistance under the XIth Plan period for construction of a separate science block.
- viii) The UGC has already sanctioned the proposal submitted by the College under Xth plan period for construction of Girls’ Hostel with a capacity of 100 students. The construction work will be started as soon as it receives the 1<sup>st</sup> installment.
- ix) During 2007-08 a well-equipped Boys’ Common Room has been constructed out of fund received from Smt. Brinda Karat, Hon’ble Member of Parliament,

from her Local Area Development fund. Construction of a hall with a sitting capacity of 500 students out of fund sanctioned by Sri Samik Lahiri, Hon'ble Member of Parliament, from MPLAD scheme is almost on the verge of completion.

- x) Upgradation of laboratories has always been a priority of the College authority and the year 2007-08 was no exception in this regard. The College authority has tried to upgrade all the laboratories as per students' need. This includes the upgradation of the laboratories of the Chemistry Department for introduction of semi-micro analysis in the degree level.
- xi) Imparting quality education to the students should surely be the focal theme of an educational institution but in today's world a college should bear some additional responsibilities in terms of career counseling of its students. The College Governing Body members have consistently expressed their whole-hearted interest in this regard and constituted a Career Counselling Cell in 2002. The Cell always tries to assist the students to choose their suitable avenues after completion of their graduation. The year 2007-08 was no exception. In this year some companies of the locality such as Mansi Oil Refinery, Poddar Leather Industry came for campus interview and recruited our students directly. For further development of this Cell the College authority has submitted a detailed proposal to UGC for financial assistance during XIth plan period. Its sanction is eagerly being awaited.
- xii) The College has two wings in the form of NCC and NSS through which the College authority regularly undertakes some outreach programmes. Considering the report of the NAAC Peer Team, the Governing Body has decided to further strengthen both the wings in order to expand the extension activity programmes of the College that aim to serve the local society people in a more effective and useful manner. As a part of this effort the Governing Body suggested the recruitment of a trained NCC officer from the College and this process is on the way of fulfillment very soon. In the year 2007-08, the NCC Unit was actively engaged in community-oriented programmes like organising blood donation camp, providing service at Gangasagar Mela and different Puja festivals etc. With a view to strengthening the NSS Units of the College, the authority has decided to expand the periphery of the NSS involving more number of students covering different sections of the College. Thus in the year 2007-08, the authority has proceeded to the affiliating university for affiliation of a third unit of NSS and applied for stipulated financial assistance to organize various community-oriented programmes throughout a whole year.

## **Part B**

### **1. Activities reflecting the goals and objectives of the institution.**

The goals and objectives of the college do address to some major issues such as intellectual, academic components, training, equality of opportunities, self-development, community & national development, ecological and environmental awareness, value-based education, career orientation and global awareness. The chief mission or goal of the college is to champion the cause of education and to disseminate knowledge even to the far-flung and outlying areas of the sub-division as well as the district of South 24 Parganas as a whole.

The most important stride that has been successfully taken to achieve these objectives is the creation of awareness cutting across all the varied strata of society in the district. It is indeed one of the glories of the Institution that even the people living below the poverty line do avail themselves of the blessings of education today. To achieve the goal and objectives, in addition to normal classroom teaching, the institution organises seminars, workshops, field-work, educational excursions for the students. From the academic standpoint, frequent class tests, seminars and quizzes are organized with the objective of steady and speedy academic orientation. As a part of remedial measure, the faculty members frequently interact individually with their students, offer effective guidance, and organize oral presentations on some syllabus-oriented topics. It also organizes survey of the locality and emphasizes the interaction among teachers-students-guardians for a better feedback. Our college has also been able to initiate quite a range of extension activities. The Institution does frequent health check-ups for its students. They are also simultaneously provided free medicine whenever it is called for. Literacy drive in the local areas is another important aspect of the extension activity in this sphere also our Institution is sufficiently active. The Institution from time to time also has been undertaking different NSS and NCC activities. Blood donation camps have also been organised from time to time. Apart from all these, the College has also involved itself in activities like construction of sanitary latrines for the well being of the local community.

Keeping in mind the economic backwardness of a number of students coming to the college, the Institution arranges for free studentships, scholarships and other financial aids from its 'Students' Aid Fund' account after they are admitted.

### **2. New academic programmes initiated (UG and PG):**

The college authority as a part of its constant effort to promote the academic enrichment of the institution, decided to initiate the process of introduction of a post-graduate course in Bengali, responding to the enthusiastic demand of the students. It must be mentioned with pleasure that the application of the college for starting of P. G. course in Bengali has got necessary sanction from all

concerned quarters ensuring of the course commencement from the academic session 2008-09.

### **3. Innovations in curricular design.**

For affiliated Colleges, the curricular designing and organization is prescribed by the affiliating university. The university authority provides the entire curricula of different subjects along with the examination pattern which the Colleges follow. In this process of curricular designing and examination reforms, some faculty members of the College are actively engaged in the form of their membership in different Board of Studies where they express their views and recommendations for designing of the curriculum and for necessary examination reforms and also sometimes remain actively engaged in implementation procedures. Also, a faculty member of the College is a member of the Undergraduate Council, the second highest governing body of the affiliating university.

### **4. Inter-disciplinary programmes started.**

Inter-disciplinary programmes are the demand of the day and keeping this in view the college authority has been making serious endeavour in this regard. As a part of this effort, the Department of Chemistry organises an inter-departmental seminar programme among the faculty members.

### **5. Examination Reform implemented.**

In the present system the affiliating university authorities (the University of Calcutta) decide on the entire examination pattern and all the affiliating Colleges follow the same. Based on the University regulations, the College authority designs its own examination calendar for better management of academic affairs. The University presently follows a three-stage examination system in the undergraduate degree level with a final examination after each year. Before appearing in the final examination at the end of each year the student has to qualify in one test examination conducted by the host institution.

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

The institution is mainly a degree college covering undergraduate courses with the exception of post graduate course in Education newly started. As the NET/SLET/GATE qualifications are obtained only after completion of post graduation, the College has no such scope and mechanism to record these details at present.

### **7. Initiative towards faculty development Programmes:**

The institution provides every form of assistance to its faculty members who wish to pursue research. Faculty members readily get permission from the college authority to apply and avail UGC-sponsored F.I.P. scheme to complete their Ph.D./M.Phil. degree. The institution authority always encourages the faculty

members to take up some research projects under UGC-MRP scheme. In fact, a number of UGC sponsored minor research projects have been conducted in the college by faculty members and two such are running presently. Moreover, for academic upliftment and knowledge upgradation, the faculty members are regularly allowed to attend different career advancement programmes like Orientation Programmes, Refresher Courses, symposia, seminars, workshops, conferences & retraining courses. Details for the academic year 2007-2008 are given below:

➤ **Ph.D. Programme completed by faculty members:**

- **Dr. Mousumi Chakraborty**, Department of Philosophy has been honoured with Doctoral degree by the University of Calcutta on 24.8.2007. The title of her thesis is “**Democracy: Indian Perspective**”.
- **Smt. Susmita Bandyopadhyay**, Department of Bengali who was doing her doctoral work under UGC-sponsored FIP scheme has submitted her dissertation for the fulfillment of Ph.D. degree in the University of Calcutta. The title of her thesis is “**Dui Banglar Chhoto Golpo: Ekti Uttal Somoyer (1947-1972) Darpan**”.
- **Sri Somen Chanda**, Department of Physics who was doing his doctoral work under UGC-sponsored FIP scheme has submitted his dissertation for the fulfillment of Ph.D. degree in the University of Calcutta. The title of his thesis is “**High Spin Spectroscopy of Odd-Mass Light Rare Earth Nuclei**”.

➤ **Research Guidance by faculty members:**

- M. Phil. dissertation titled “Liquidity Management of Public Sector Pharmaceutical Enterprises in India” under the supervision of Dr. Amalendu Bhunia, Lecturer (Sr. Scale), Department of Commerce, submitted in the University of Annamalai (2007/08).

➤ **Publications of faculty members:**

**Department of Bengali**

- **Sukla Basu** (2007), ‘Bayos Sandhi: Rabindranth er Chhuti Golpo’, *Purba Samudra*.
- **Sukla Basu** (2008), ‘Satobarhser Aloke Manik Bandyopadhyay’, *Rajdanga Samonnai Club Souvenir*.
- **Mahuya Chakraborty** (2008), ‘Aruper Rash: Aruper Anya Sandhan’, *Bangla Choto Golper Sekal Ekal*.

- **Mahuya Chakraborty** (2008), ‘Steel er Chanchu: Projonmer Byabodhan’, *Bangla Choto Golpo Porjalochona Bis Shatak*.
- **Dr. Tapan Mandal** (2007/8), ‘Tiner Taloyar: Aprodhan Charitre – Mothur O Bachospoti’ *Tiner Taloyar – Ispater Taloyar*, edited by Apurba Dey.
- **Dr. Tapan Mandal** (2007/8), ‘Boodhni: Borbor Janonir Matritwa’, *Galpo Charcha*, edited by Dr. Ujjal Majumdar.

### **Department of History**

- **Kaustav Chakrabarti** (2006-2008), ‘Terrorism: Challenges to Politics, Society and International Relations’, *Jadavpur Journal of International Relations*, Volumes 11-12, pp 139-155.
- **Biswarup Ghosh** (2008), ‘Jihadi Jung: Terrorism, The South Asian Experience’, *IAAPS Proceedings Volume*.

### **Department of Philosophy**

- **Dr. Mousumi Chakraborty** (2007-08), ‘Ganotantro Hobe Lokayato’, *Samajbadi Bhabna*.
- **Dr. Mousumi Chakraborty** (2007-08), ‘Bharotborshe Ganotantrer Dhara’, *Samajbadi Bhabna*.
- **Dr. Mousumi Chakraborty** (2007-08), ‘Nari Hoye Uthuk Oitijhyanugo’, *Samajbadi Bhabna*.

### **Department of Political Science**

- **Kamaljit Das** (2008), *Livelihood: discontentment and Governance: A study of kalahandi District of Orissa*, AB Publication.
- **Kamaljit Das** (2008), ‘USA and South Asia, Strategic and Policy Dimensions’, *Orissa Journal of Political Science*, Volume 3.
- **Kamaljit Das** (2008), ‘Crisis of Governance in Bangladesh’, *South Asia Politics*, February 2008.
- **Kamaljit Das** (2008), ‘Sarvashiksha Abhiyan – A Programme for Universalisation of Elementary Education’ *South Asia Politics*, April 2008.

### **Department of Education**

- **Keya Chattopadhyay** (2007/8), ‘Stress: Some Clues on its Management’, *Vision* (Journal of Education), Department of Education, F.C. College.
- **Priyanka Das** (2008), ‘Sarva Shiksha Avijan’, *South Asia Politics*, Volume 6, Number 12.

### Department of Commerce

- **Dr. Amalendu Bhunia (2008)**, 'A discriminant Analysis and Predictor of Liquidity analysis', Vidyasagar University Journal of Commerce.
- **Dr. Amalendu Bhunia (2007)**, 'Liquidity Management of Sponge Iron: A case Study', Southern Economist.
- **Dr. Amalendu Bhunia (2008)**, 'Liquidity Management of Public Sector Steel Enterprises in India', Vidyasagar University Journal of Commerce.
- **Dr. Amalendu Bhunia (2009)**, 'Globalisation of Accounting Standard', Southern Economist
- **Dr. Amalendu Bhunia (2009)**, 'Stress Management in an Organisation – A Pace', Southern Economist
- **Dr. Amalendu Bhunia (2008)**, 'Inventory Management– A study of Short-term Financial Planning', Calcutta University Journal (CAA)

### Department of Physics

- **S. Chanda**, T. Bhattacharjee, S. Bhattacharyya, S. K. Basu, S. S. Ghugre, S. Muralithar, R. P. Singh, R. K. Bhowmik (2007), "Multi-quasiparticle excitations in  $^{139}\text{Pr}$ ", *Abstract book of International Nuclear Physics Conference (INPC 2007, held at Tokyo during June 3-7, QM-019*.
- G. Mukherjee, K. Banerjee, S. R. Banerjee, S. K. Basu, C. Bhattacharya, S. Bhattacharya, Srijit Bhattacharya, Sudeb Bhattacharya, T. Bhattacharjee, **S. Chanda**, A. Dey, G. Dey, S. Ganguly, A. Goswami, D. Gupta, R. Kshetri, S. Kundu, J. K. Mina, S. Mukhopadhyay, M. K. Pradhan, T. K. Rana, R. Raut (2007), "Onset of deformation at  $N = 112$  in  $^{195}\text{Bi}$ ", *Abstract Book of International Nuclear Physics Conference (INPC-2007, held at Tokyo during June 3-7), QM-025*.

### Department of Chemistry

- **M. Sen Sarma**, S. Mazumder, D. Ghosh, A. Roy, A. Duthie, E. R. T. Tiekink, Synthesis, spectroscopic characterization and biocidal activity of some diorganotin (IV) complexes of salicylaldehydethiosemicarbazones and related ligands. Molecular and supramolecular structures of  $[\text{R}_2\text{Sn}(\text{OArCH}=\text{N}-\text{N}=\text{CSNH}_2)]$ , where  $\text{R}=\text{Me}$ ,  $\text{Ph}$  and  $\text{Ar} = -\text{C}_6\text{H}_4$ ,  $-\text{C}_6\text{H}_3(5-\text{Br})$  and  $-\text{C}_6\text{H}_3(5-\text{Cl})$ , and of  $[\text{Me}_2\text{Sn}\{\text{OC}_6\text{H}_3(5-\text{Br})\text{CH}=\text{N}-\text{N}=\text{CSNH}_2\}]\cdot\text{OH}_2$ , *Applied Organometallic Chemistry*, 2007 ; 21 : 890-905.
- **M. Sen Sarma**, A. Saha, A. Roy, Organotin(IV) carboxylates of cyclopropane carboxylic acid and 3-cyclohexylpropanoic acid : Synthesis, characterization and biological activity. The crystal structure of

bis(cyclopropanecarboxylato)tetramethyl distannoxane, *Applied Organometallic Chemistry*, 2008 ; 22 : 369-377.

- **M. Sen Sarma**, C.A. Ellis, N.Moitra, A.Roy and E.R.T.Tiekink, Di- $\mu_2$ -methoxo-bis[benzyl(5-chloro-2-oxidobenzaldehydethiosemicarbazonato) tin(IV)], *Acta Cryst.* 2006 ; **E62**, m2067-m2069.
- **Tapas Kumar Mandal**, Rammohan Pal, Ashok Kumar Mallick (2007), 'Facile formation of bis(3-indolyl) methylarenes by iodine catalysed reaction of indole with  $\alpha$ ,  $\alpha'$ -bis(arylmethylene)-ketones and  $\alpha$ -substituted aryl methyleneketones in dry ethanol', *Indian Journal of Chemistry*, 46B, pp 2056 – 2059.

#### **Department of Economics**

- **Dr. Piyali Sarkar (2007)**, 'Rural Non-farm Employment, Poverty and Inequality: Micro Level Evidence from West Bengal', *The Journal of Rural Development*, Volume 34, Number 2, pp 89-106.

#### **Department of Geography**

- **Deepa Bhattacharjee (2008)**, 'Natural hazards and their impact on land use with special reference to landslide in Uttarkashi-Gangotri area', *Geomorphology in disaster mitigation and management*, Abstract Volume, Department of Geography, Benaras Hindu University, U.P.

#### **➤ Presentation of Research Papers by faculty members:**

##### **Department of Commerce**

- **Indrani Dasgupta** presented a paper titled "Information asymmetry and small firm finance-Credit scoring as a technology" on 23rd February, 2008 in the Department of Commerce and Farm Management, Vidyasagar University.

##### **Department of History**

- **Biswarup Ghosh** presented a paper titled "Partition of Bengal 1947: Public Opinion" in P.B. Itihas Samsad in January 2008.
- **Biswarup Ghosh** presented a paper titled "Partition of Bengal 1905 and the Muslims" in UGC sponsored seminar in History, April 2008.

##### **Department of Political Science**

- **Kamaljit Das** presented a paper titled "Globalisation and Administrative Reforms in India" in UGC sponsored National Seminar at Utkal University in March 2008.

### **Department of Education**

- **Swetadri Sarkar** presented a paper at the National Seminar on Inclusion of the Excluded: Agenda of Education for Social Leveling and Empowerment organized by Kalyani University on 16<sup>th</sup> and 17<sup>th</sup> February 2007. Title of the paper is “An exploratory study to investigate the difficulties and problems faced by students from the Bengali Medium schools of North 24 Parganas and Kolkata in Higher Education as a step towards social leveling.”
- **Priyanka Das**, presented a paper at the National Seminar on Inclusion of the Excluded: Agenda of Education for Social Leveling and Empowerment organized by Kalyani University on 17<sup>th</sup> February 2007. Title of the paper is “Inclusion of a Marginalised Community - Hijras”
- **Priyanka Das**, presented a paper at the National Seminar organized by the University of Calcutta, 2007. Title of the paper is “Comparative Study of Locus of Control of Students of Self Financed Course and General Course”.

### **Department of Geography**

- **Deepa Bhattacharjee** presented a research paper titled “Natural hazards and their impact on land use with special reference to landslide in Uttarkashi-Gangotri area” in the National Seminar on Geomorphology in disaster mitigation and management and XX annual meet of IGI (Indian Institute of Geomorphologist) February 15-17, 2008 at Benaras Hindu University, U.P.
- **Deepa Bhattacharjee** presented a poster titled “environmental degradation of Tamil Nadu coast with special reference to Kannyakumari” in the National Seminar on Environment and Development organized by WAST ( West Bengal Science and Technology) on 22-23<sup>rd</sup> February, 2008 in Jadavpur University.

### ➤ **Faculty members who participated in UGC sponsored Orientation Programme:**

- **Dr. Rana karmakar**, Department of Chemistry participated in 65<sup>th</sup> Orientation Programme organized by the University of Burdwan from 4<sup>th</sup> March to 31<sup>st</sup> March 2008.
- **Indrani Dasgupta**, Department of Commerce participated in Orientation Programme organized by Jadavpur University in June 2007.

➤ **Faculty members who participated in UGC sponsored Refresher Course:**

- **Kaustav Chakrabarti**, Department of History participated in refresher course on “Politics, Society and International Relations” in the Department of International Relations, Jadavpur University from 26<sup>th</sup> November to 15<sup>th</sup> December 2007.
- **Biswarup Ghosh**, Department of History participated in refresher course on “Gendering Disciplines. Teaching and Research in Social Science” organized by School of Women Studies, Jadavpur University in January 2008.
- **Dr. Mausumi Chatterjee**, B.Ed. section participated in refresher course.
- **Dolly Ghosh**, Department of English participated in refresher course in the Department of English, Jadavpur University from March 10<sup>th</sup> to March 31<sup>st</sup> 2008.
- **Dr. Sarmila Datta**, Department of Physics participated in refresher course in the Department of Physics, Calcutta University from 5<sup>th</sup> September to 25<sup>th</sup> September 2007.
- **Dr. Piyali Sarkar**, Department of Economics participated in refresher course in the Department of Economics, Calcutta University from 19<sup>th</sup> February to 10<sup>th</sup> March 2008.
- **Dr. Amalendu Bhuniya**, Department of Commerce participated in refresher course in the Department of Commerce, Calcutta University from 6<sup>th</sup> September to 26<sup>th</sup> September 2008.

➤ **Faculty members who participated in training or workshop:**

- **Somen Chanda**, Department of Physics participated in workshop on microprocessor organized by Department of Physics, Vidyasagar College between 24<sup>th</sup> and 29<sup>th</sup> March 2008.
- **Somen Chanda**, Department of Physics participated in BRNS workshop on “Ion-beamer at VECC and their applications in basic and applied sciences” at VECC, Kolkata.
- **Somen Chanda**, Department of Physics attended BRNS theme meeting on “requirement of data on accelerator driven systems” at VECC, Kolkata.
- **Somen Chanda**, Department of Physics participated in user’s training programme on the use of the high end competing systems HP ix7640 with 8 Itanium2 CPU cores – one with HP-UX (b.11.23) as OS and the other with Red Hat Linux AS4 (kernel 2.6.9-42) as OS.
- **Tapas Das**, Department of Physics participated in workshop on microprocessor organized by Department of Physics, Vidyasagar College between 24<sup>th</sup> and 29<sup>th</sup> March 2008.
- **Sutapa Dutta**, Department of Economics participated in workshop on “Economics at the Undergraduate Level: Current Trends” on 15<sup>th</sup> March, 2008 organized by Gurudas College, Kolkata.

- **Gokulananda Goswami**, Department of Economics participated in workshop on “Economics at the Undergraduate Level: Current Trends” on 15<sup>th</sup> March, 2008 organized by Gurudas College, Kolkata.
- **Dr. Anjali Ghosh**, Department of Chemistry attended workshop on “Modern trends in Chemistry” organized by University of Calcutta on 20<sup>th</sup> march 2008.
- **Moumita Sen Sarma**, Department of Chemistry attended workshop on “Modern trends in Chemistry” organized by University of Calcutta on 20<sup>th</sup> march 2008.

## 8. Total number of seminars/workshops conducted:

In addition to numerous intra-college departmental seminars, our college organized seven regional/state/national level seminars in this academic year as detailed below.

- UGC Sponsored National Seminar on “*swadhinata-uttar Bangla Kabita: Epar-Opar*” organized by the Department of Bengali on 11th April 2008.
- UGC Sponsored State level Seminar on “*India revisited: Society, Economy, Politics. Colonial and Post-Colonial Perspectives*” organized by the Department of History on 7th April 2008.
- State level seminar on “*Frontiers of Physics*” organized by Department of Physics on 12<sup>th</sup> January 2008.
- Seminar by B.Ed. section.
- State level Seminar on “*Open Education System in School and Higher Education*” organized by Department of Education (PG section) on 3<sup>rd</sup> April 2008.
- State level Seminar organized by Department of Bengali on 13<sup>th</sup> October, 2007 in order to felicitate Sri Jhareswar Chattopadhyay, the recipient of *Bankim Puroskar* awarded by the Government of West Bengal who is also an ex-student of this college.
- State level Seminar on “*Some Basic Aspects of Undergraduate Chemistry*” organized by Department of Chemistry on 17<sup>th</sup> November 2007.

## 9. Research Projects

### ❖ Newly implemented

- University Grants Commission has newly sanctioned 1 Major Research Project. Principal Investigator: Dr. Subires Bhattacharya
- 2 Minor Research Projects Funded by University Grants Commission are in Progress:
  - Project No. F. PHW – 052/06-07 (ERO) titled “SHGs as Panacea of Poverty Management: Where do we stand in West Bengal?”

Principal Investigator: Dr. Piyali Sarkar, Department of Economics

- Project No. F. PHW – 051/06-07 (ERO) titled “Through Contemporary And Historical Perspectives: With A Case Study: - Ushagram Vikas Kendra”. Principal Investigator: Putul Chakraborty, Department of History.

#### ❖ Completed

- A project sponsored by the Zilla Parishad, South 24 Parganas for preparing the District level **Annual Plan 2007-2008** under the Eleventh Five Year Plan 2007-2012 of the Planning Commission for the district of South 24 Parganas has been done and duly submitted by the Department of Economics.
- Dr. Amalendu Bhunia, Lecturer (Sr. Scale), Department of Commerce: UGC-sponsored Minor Research Project on Working Capital and Liquidity Management – A Comparative Study between SAIL and TISCO. (Final report submitted in August, 2007).

#### 10. Patents generated, if any:

None in this academic year.

#### 11. New collaborative research programmes:

Collaborative research by **Sri Somen Chanda**, Department of Physics: Experiments in Nuclear Physics, especially the “in-beam” experiments, require a lot of instrumentation and computerisation. “In-beam” implies those experiments in which data is taken during the period when an actual nuclear reaction takes place by the use of a beam of accelerated atoms. Usually, in an “off-beam” experiment radioactive nuclei/source is used and data is taken during the decay of the radio-nuclides. Various types of instrument are used in an in-beam experiment, some of which are extremely complicated in development, installation, operation and maintenance. These are very sophisticated in technology too. Few examples of these kinds of instruments are: CLOVER-Germanium detectors, different electronic modules for signal processing, data acquisition system (including computers) and particle accelerators. Some of these need dedicated group of people for their development, operation and maintenance. An involved R&D is required for their smooth running and optimal use on a regular basis. Therefore, doing research in experimental nuclear physics could never be a ‘one-man-job’, nowhere in the world.

The best way to perform an in-beam experiment is to form a group/collaboration of researchers. The research collaboration happens at different levels – (a) facility development and (b) specific research programme with a specific physics goal, if one wants to categorise from a broader purview.

His personal involvement has been at both the levels as mentioned above. Since his registration as a Ph.D. student at the University of Calcutta, he has planned his own research problem in experimental nuclear structure physics which could not be performed without collaborating with other people from different national laboratories in our country. Therefore, his research programmes involved many scientists from the research institutes like the Variable Energy Cyclotron Centre (VECC, DAE), Kolkata, the Saha Institute of Nuclear Physics (SINP), Kolkata, the Inter-University Accelerator Centre (IUAC, formerly Nuclear Science Centre), New Delhi, the Tata Institute of Fundamental Research (TIFR), Mumbai, the Bhabha Atomic Research Centre (BARC), Trombay, the UGC DAE Centre for Scientific Research, Kolkata and the University of Calcutta.

Apart from above, Somen Chanda has been involved in many developmental projects/national facility development programmes. In particular he was involved in the “Charge Particle Detector Array” (or CPDA) programme at VECC, Kolkata in collaboration with the experimental nuclear physics group since my studentship years. Later on, he became a member of the Indian National Gamma Array (INGA) collaboration which is a DST funded National Facility Development Programme. In this collaboration, apart from the students and scientists from the above mentioned research institutes, many students and scientists from many Indian universities have joined hands together and as a result our country has become one of the few in the world having such a state of the art facility in the field of “experimental gamma-ray spectroscopy”. The institute is very happy and feels proud that a faculty member of this college is a team member of a research project of such exceptional dimension as this, which also has brought glory to the scientific endeavour of our country.

#### **12. Research grants received from various agencies:**

- UGC sanctioned Rs. 80,000 for the Minor Research Project No. F. PHW – 052/06-07 (ERO).
- UGC sanctioned Rs. 75,000 for the Minor Research Project No. F. PHW – 051/06-07 (ERO)
- Zilla parishad, South 24 parganas sanctioned Rs. 42100 for preparing the Annual Plan 2007-2008 for the district.

#### **13. Details of research scholars: Nil**

#### **14. Citation index of faculty members and impact factor:**

### **15. Honors/Awards to the faculty:**

- ❖ Dr. Mousumi Chakroborty, Department of Philosophy has been honoured with Doctoral degree by the University of Calcutta. The title of her thesis is “Democracy : Indian Perspective”.
- ❖ Dr. Somen Chanda, Department of Physics has been honoured with Doctoral degree by the University of Calcutta. The title of his thesis is “High Spin Spectroscopy of Odd-Mass Light Rare Earth Nuclei”.
- ❖ Dr. Mousumi Chatterjee, B.Ed. Department has been Honoured M.Ed. degree by the University of Calcutta in 2007.

### **16. Internal resources generated:**

- The institution is rurally based encompassing an area of 11.82 acres. Within the campus there are ponds which are used to generate resources through **Pisciculture**.
- Inside the campus there is a **Post Office** which is rented by the Postal Department of Government of India.
- The college premise is also rented out during holidays for various academic purposes.

### **17. Details of departments getting SAP, COSIST(ASSIST)/DST, FIST, etc. assistance/recognition:**

None.

### **18. Community services:**

The Institutional authority is in constant effort to promote its college-neighbourhood network through its students' community. For this purpose the NSS & NCC wings of the Institute are mainly involved.

The College has two NSS units functioning, keeping in mind the socio-economic condition of the students and the locality where it is situated. Every year the units organize camps for the betterment of the college and the locality and in the process implants in the students national responsibility and makes them conscious of their duties towards the society.

In the last academic year (2007-2008) the units organized three camps. The volunteers of the units undertook the task of cleaning the college campus including the B.Ed. building, the Post-Graduation building and also the road approaching the college premises. Although a laborious job, our students were, nevertheless, dedicated enough to clean up the campus by the end of the day.

With the help of the college authority and the faculty members, the student volunteers of the units underwent a literacy drive programme in the neighbouring villages to find out the percentage of drop-outs and the percentage pursuing their

studies, their problems in continuing schooling and the ways the unit can help spread education for the upliftment of the local children.

By the end of the academic session NSS, Fakir Chand College unit organized a health awareness camp under the guidance of the honourable President of our Governing Body, Dr. A. Hasnat and with the help of other honourable doctors of the town. The programme was a success with the unconditional help of the doctors and our teachers and students. The mothers and the children of the locality were provided free health check-ups, advice from the doctors and required medicines. This immensely benefited the local people specially the ones for whom regular medical check-up is a luxury.

Apart from the above camps a regular feature of the units is to provide first-aid to the students of the college, to maintain cleanliness within and outside the college campus and help the needy.

#### **19. Teachers and officers newly recruited:**

The Governing Body always accords top priority on teacher-student ratio which is a vital factor for quality teaching. Keeping this in mind the college administration recruited 3 contractual full-time teachers and 3 part-time teachers as Governing Body sanctioned incumbents in different departments as per their need.

#### **20. Teaching-Non teaching staff ratio:**

2:1 (approx.)

#### **21. Improvements in the library services:**

The library of the institution is rich in the matter of collection of books and journals with modern service facilities available. Computers, Internet, reprographic facilities are available in the library. Students can access Internet facilities with the help and presence of their teachers as per their requirement. The Library computerization process has been completed. Cataloguing system of the library has been fully computerized. Broad band facility has been extended to the library also. The library hour has been increased so that the students may have access to the library for larger part of time in the college.

#### **22. New books/journals subscribed and their cost:**

More than 3000 new books and about 25 new journals were purchased/subscribed in the year 2007-08 costing over Rs. 2.5 lakhs for different libraries of the College.

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

Evaluation of the teachers by the students is a discussed, delicate reality now. The administrative process that is operative in the college is to provide the outgoing third-year students with a questionnaire strictly laid down by the NAAC authority, which they are to answer on the basis of their impressions regarding the teaching abilities of their teachers. These questionnaires are then meticulously scanned and the end product is passed on to the people at the helm of affairs in the institution. The entire feedback is then perfectly analysed by a method scientifically improvised by our teachers and finally the output is transmitted to the different disciplines of the college.

**24. Unit cost of education:**

- a) Unit cost = total annual expenditure budget (actual) divided by number of students enrolled : Rs. 8,498.00/-
- b) Unit cost calculated excluding salary component : Rs. 1,443.00/-

**25. Computerization of administration and the process of admissions and examination results, issue of certificates:**

The college is equipped with more than fifty computers. Other than serving the academic purpose of the college, computers are also used for administrative purpose of the college. In fact, the entire administrative wing of the college is computerised. The financial details of the college including disbursement of salary as well as periodical increments are well-documented as a result of computerization. The admission process of the college is centrally co-ordinated through computers. This helps not only in publishing the merit list of eligible students for admission but also helps in keeping proper record of students profile getting admitted in the college.

So far as the examination results and issue of certificates is concerned the affiliating university (Calcutta University) is the issuing authority. However, the college which is the disbursing authority of these documents, maintains full record.

**26. Increase in the infrastructural facilities:**

- (i) Construction of a girls' hostel project with a capacity of 100 girl students to be commenced immediately after getting the 1<sup>st</sup> instalment of funds sanctioned by UGC during Xth Plan Period.
- (ii) Completion of construction of the new Boys' Common Room with proper amenities having an area of 1500 square feet with the fund received from Smt. Brindha Karat, Honourable Member of Parliament, as a part of her MPLAD scheme.

- (iii) Proposal to UGC under XIth Plan Period for construction of a separate science block.
- (iv) Commissioning of two 15 KV environment friendly generator for providing uninterrupted power supply to different laboratories, class rooms, library, gymnasium, canteen, boys' & girls' common room teachers' common room, office and administrative building.

#### **27. Technology upgradation:**

- Upgradation of Chemistry laboratory for introduction of semi-micro analysis in the degree level.
- Broad band connection and internet facility further expanded to accommodate more number of students at a time. The service is totally free of cost. Also, internet facility has been provided to college office for more prompt functioning.

#### **28. Computer and internet access and training to teachers and students:**

The College has more than fifty computers and its own internet facility, which is freely accessed by the faculty members for their academic and teaching upliftment. Faculty members frequently use computer facilities to prepare their teaching materials in the form of making slides to display in overhead projector, slide projector and LCD projector. The students are also allowed to use Internet facility under the able guidance of their teachers. The total facility is accessible free of cost.

Some departments like the Department of Physics have developed computer-based virtual experiments for lucid demonstration of some course materials. Also, the Department of Computer Science is constantly putting endeavour for such developments to transact their educational programme.

Free training programmes are regularly held in the computer section on data entry and data processing. These training programmes are available to teaching members, non-teaching staff as well as the students.

#### **29. Financial aid to students:**

Every year a number of economically backward students get either free studentships, scholarships or can avail themselves of Students' aid Fund from the College. This is provided either by the Government of West Bengal or by the college administration. In this academic year the Government has given a support of Rupees 12 lakhs for students' aid facility. The college administration has provided an additional amount of rupees 7 lakhs for the students' aid. Additionally the Teachers Council of the college also raises fund on monthly basis from the teachers of the college to help the truly needy students of the college.

### **30. Support from the Alumni Association and its activities:**

Incidentally, the Alumni Association of the College has been formed recently. As such, its contribution towards the development of the Institution is yet to be comprehensively reflected through its activities but the members have adopted some definite programmes for such development process.

- Ex-students of college who are members of Bar Association (Lower Court, Higher Court) give legal advice to the college. As per desire of the State Legal Services Authority, Chairman of Sub Divisional Legal Aid Committee DDH intended to organize a legal awareness camp in our institution. In fact, it was the active participation of ex-students who are members of Bar Association that the **Legal Awareness Camp** for the students along with the local people could be organized in our college on 15th March, 2008.
- Copies of books written by ex-students are donated to the college library.
- The ex-students of college provide confidence in organizing different extra-curricular activities of the college. They help in conducting sports/cultural activities/ literacy drive and other such programmes. With their co-operation the programmes of the college turn out to be not only colourful, but effective as well.
- Their active participation in providing health services are of extreme help to the college. They not only help in organizing health camps or blood donation camps but also donate blood at such camps for the college.

### **31. Support from the Parent-Teacher Association and its activities:**

There is regular interaction between parents and teachers of the college which lead to a healthy and congenial academic ethos of the college. Interaction with the parents also helps in identifying the economically backward students who need aid in continuing their studies. Members of the authority thereby feel that poor students of the college are by no means deprived. Also, since most of the parents are ex-students of this college, they never hesitate to put extra effort in making the environment of the college congenial.

### **32. Health services:**

The college organizes various health related programmes every year for the students and also for the surrounding locality. Some of the programmes include:

- i) Blood donation camp
- ii) Mother-child awareness camp
- iii) Polio programme
- iv) General health awareness programme

- v) Free health check-up along with distribution of free medicines by the local eminent doctors.

**33. Performance in sports activities:**

Our students regularly participate in several sporting events like Judo, Chess, Swimming, Table Tennis, Badminton, Kabadi, football and cricket both at the district as well University level and prove their abilities. Major team achievements for this year are:

- **District Champion (Boys)** in Football in 8<sup>th</sup> Inter Non-Govt. College Football Championship in the Year 2007.
- **District Champion (Girls)** in Athletics Meet in 8<sup>th</sup> Inter Non-Govt. College District Meet in the Year 2007.

Being district champions they have also participated in the state level championship of football and athletics. In addition, a number of students have proved their talents in individual categories at the district level as also at the state level.

**34. Incentives to outstanding sportspersons:**

- i) As a part of the incentive to outstanding sportspersons, the college appoints trainees who are largely responsible for the consistent success of the college students in various districts and state level meets over years.
- ii) The multi-gym facility available in the college for year round is extended free of cost.
- iii) Free sports kits and dresses are supplied to the relevant students.
- iv) The college also arranges balanced food to the sportspersons during their training period.

**35. Students achievements and awards:**

- **Academic achievement of the students**
  - ✓ **District Champion** in the inter-college Mock Parliament, 2007 organised by the Zilla Parishad – South 24 parganas.
  - ✓ **District Champion** in the inter-college Quiz Contest, 2007 organised by the Zilla Parishad – South 24 parganas.
- **Achievement in sports**  
Same as Q33.
- **Achievement in cultural programmes**
  - ✓ **Avik Halder**, a student of B.A. 3<sup>rd</sup> Yr of the college is a well-known singer who made through for the final in the music competition ‘*Gane Mor Indradhanu*’ telecast in a most popular television channel.

### **36. Activities of the Guidance and Counseling Cell:**

The College has a career-counseling and guidance cell, which makes regular counseling of students to choose their future programmes. The College Career Counselling Cell is mainly comprised of a number of faculty members. They routinely engage themselves in academic and personal counselling as per the requirements of the students (both male and female). Their guidance gets a special thrust for self-employment especially considering the socio-economic and academic background of the students. Thus the cell always opens up different avenues of self-employment to the students and encourages them to adopt them.

### **37. Placement services provided to students:**

With the active initiative of the faculty members and the college authority, campus recruitment has been made possible in the institution. Some companies of the locality such as Mansi Oil Refinery, Poddar Leather Industry come for campus interview every year. Several students of the college have been directly recruited into commercial units of the area through these campus interviews. Additionally this year TCS has opted to come for campus interview in the Department of Chemistry of the college.

### **38. Development programmes for non-teaching staff:**

For skill development of the non-teaching staff there is regular computer training programmes covering data entry and data processing. They are also trained to develop software according to the need of the office. Some of them also have basic hardware training to keep a steady maintenance of the office computers in use. The Gateway Computers – expert in software and hardware development is involved in the process.

### **39. Best practices of the institution:**

The students of the institution are its “strength” and it emphasizes activities that can empower the students and overcome their backwardness not just academically but physically, mentally, culturally and socially. Some of the practices to ensure their overall development include:

- ☒ Teacher-student interaction.
- ☒ Class tests are taken regularly to identify backwardness of students and ameliorative measures are taken accordingly.
- ☒ For slow and disadvantaged learners the faculty members of each department conduct some extra classes and interact directly in a separate manner to comprehend their deficiencies and formulate strategies for its effective solution. The remedial measures are undertaken accordingly.

- ❧ The financially backward students are aided through scholarships or free studentship and are given special coaching and counselling in case they are backward otherwise.
- ❧ The students are consistently inspired to use the library more and more. The manifestation of this is seen through increased library use over the year.
- ❧ The institution maintains curriculum for physical and mental development of students.
- ❧ Regular workshops, debates and seminars are arranged in the college whereby the students are enlightened and they also get a scope to present and interact with their views.
- ❧ The college has a strong NCC and NSS wing where the students are involved in various social activities in the college as also in the locality.
- ❧ The college has rich cultural heritage which is nurtured by faculty members and the students every year through various cultural programmes.
- ❧ Preparation of Annual Plan 2007-2008 under the Eleventh Five Year Plan for the district of South 24 Parganas.
- ❧ Evaluation of “School Service Commission answer scripts” by the teachers.
- ❧ Faculty members are invited as “experts” in the interview board of secondary and post-secondary school teacher selection process of the Government of West Bengal.
- ❧ Teachers of the college are also sent as expert for recruiting school-appointed teachers in the nearby areas.
- ❧ Teaching and non-teaching staff of the college participate in various awareness programme like blood donation camp, anti-smoking and health awareness camp, legal awareness camp organized either in the college or in the nearby areas.

**40. Linkages developed with National/International, academic/research bodies:**

Individual teachers of the college are seriously engaged in research and some of them are linked to various national and international institutions.

**41. Any other relevant information:**

## Part C

### **Detailed plans of the institution for the next year:**

To ensure consistent and catalytic improvement in the performance of the institution, the IQAC has chalked out some intervention strategies as the target for the next year. Some of the goals set for the last year were long-run projects which are ongoing and is expected to be completed by the next year. So on the one hand the institution plans to complete the on-going projects and on the other it wishes to achieve the still unachieved targets of the previous year. Of course some additional new targets are also set for quality enhancement of the institution in the coming year.

- i) To commence the Post Graduate course in Bengali from the session 2008-09.
- ii) To commence the Computer Science (Honours) course.
- iii) To introduce some vocational courses as proposed to UGC in XIth plan proposal.
- iv) To introduce communicative English as a vocational course.
- v) To organize workshops and seminars on regular basis.
- vi) To start the construction process of a separate science block as proposed to UGC under XIth plan proposal.
- vii) To commence the construction of the girls' hostel scheme immediately on receiving the 1<sup>st</sup> instalment amount from UGC.
- viii) To upgrade science laboratories as per students' need.
- ix) To give the "Career Counseling Cell" a completely new look as proposed to the UGC under XIth plan proposal to make the Cell more student friendly.
- x) To appoint a trained NCC officer.
- xi) To expand the horizon of the NSS wing for performing more and more community-oriented programmes.
- xii) To facilitate conveyance of teachers and students as also to help in enhancing extension activities by having some transport of its own.