

# ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF IQAC

**Name of the Institution:** St. Xavier's College, Ranchi

**Year of Report :** 2009-10

**Part A.** What is the plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and what is the outcome by the end of the year?

## **Action Plan**

- **Academic Improvement**
  - Addition of New Courses under existing system
  - Redesigning Curriculum.
- **Evaluation Reforms**
  - Strengthening of evaluation system
- **Teacher's Reforms**
  - Emphasis on Faculty Improvement Programmes
  - Documentation of Appraisal report
- **Technological Reforms**
  - Availability of Multimedia projectors
- **Library Improvement**
- **Research Facilities**
  - Inculcating and facilitating research temperament among the teachers and students.
- **Alumni Association**
- **Infrastructural reforms**
  - Construction of Additional class rooms
  - Construction of Gymnasium and second common room
  - Office Automation
  - Extension of Canteen
  - Maintaining Health Care Centre
  - Improving upon Facilities existing in the classrooms
- **Outreach programs**

- Encouragement to join NSS and NCC
- **Students Welfare and Facilities**
  - Plans related to involvement of student representatives in
    - Developing emotional attachment with the institution
    - Networking and associating with other colleges/institutions
    - Inculcating values
    - Improvement of ambience
- **Other Staff members**
  - Training of office staff and library staff to acclimatize with the new system
  - Counseling and training sessions to develop student friendly mindset and behaviour.

**Outcome:**

- We have successfully networked the offices and laboratories
- Remodeling of the stage with new automated curtain and soundproofing of the auditorium
- File cabinets and book shelves were procured for different departments and offices
- Computer lab in the new block with 100 computers was made available to run Computer Animation Course.
- Improvement of canteen facilities, toilet facilities
- Wi-Fi facility was extended to students of a number of departments.
- Examination system was fine tuned for optimized performance
- Acquisition of nearby campus under infrastructural enhancement.
- A new canteen was started along with the existing one.

**Part B**

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

**Activities**

- New methods were evolved for the assessment of students work, the conduct of examination and notification of results
- To achieve higher standards and creativity modern tools of educational technologies were used.
- Encouragement towards the academic development of the members of faculty and research activities
- Remedial classes for the students who did not do well in the examinations were organized.
- Organizing workshops, Seminars, Industrial visits, Guest Lectures and Industry-Academia Association development were encouraged.
- Opening new vocational courses (Computer Animation )

- Assistance towards attending and presenting/contributing papers in national and international level seminars/conferences/workshops.
- Student-Teacher-Parent interaction towards promoting and assisting in Industrial visits, Summer/On-Job Training, Job placements and Entrepreneurship development.
- Promotion towards participation in on-campus and off-campus co-curricular and extra-curricular activities both at state and National level
- Encouragement to join NCC and NSS.
- Promotion of national integration through different academic programs and social Activities
- Efforts are made to create secular environment
- Promoted vocational entrepreneurial education
- Continuous assessment of students performance and timely publication of results
- Installation of multimedia projectors permanently in some class rooms for effective instruction.
- Provided opportunity to teachers and students of local population to showcase their creative talent.
- Efforts are made to upgrade database of final year and passed out students.
- Incorporation of a career portal in the college website for placement and resume writing services

#### A. TEACHERS PARTICIPATION IN INTERNATIONAL SEMINARS/ WORKSHOPS/ CONFERENCES/ SYMPOSIA:

- i. **Dr. Marcus Barla** Department of Economics participated in International Seminar on, *‘Sustainable Development in the Context of Project Induced Displacement: Human Rights Perspectives and Best Practices’*, held on 1-2 August 2009 at Xavier Institute of Social Service (XISS), Ranchi
- ii. **Dr. Raman Kumar Das** : Department of Mathematics presented a paper *“Location of approximation in the context of Prasad’s Markoff like chain”*, Authors – R. K. Das & Manohar Lal in the 1<sup>st</sup> PRIMA – 2009, International Conference of Mathematics held at UNSW, Sydney, Australia from 06. 07. 2009 to 10. 07. 2009.
- iii. **Shri D. K. Ghosh** : Department of Mathematics attended *2<sup>nd</sup> International Conference on Modelling & Simulation for Process Control* at Research & Development Centre, Ranchi during Dec. 9 – 11, 2009.
- iv. **Dr. Harishwar Dayal**, Dept. of Economics, participated in :
  - (i) International Expert Dialogue on *“Achieving sustainable livelihood for Indigenous Peoples”* on 8<sup>th</sup> April 2010 at The Hague – The Netherlands. The Dialogue was organized by Netherlands Centre for Indigenous Peoples (NCIV), The Hague.
  - (ii) “workshop on Indicators on land – use change” in Nairobi from 7<sup>th</sup> to 9<sup>th</sup> May 2010 and presented a paper on “Identification and Measurement of Traditional Occupation”.

- v. **Dr. Shiv Kumar**, Dept. of Geography
  - a. participated and presented a paper titled “*Peripheral Rural Markets of Ranchi City – Some General Perceptions*” in International Conference on “*Environment, Resource and Regional Development*” held at University of Burdwan, Burdwan (WB) on 8<sup>th</sup> and 9<sup>th</sup> March 2010.
  - b. Participated and presented a paper titled “*Legal Provisions for Environment Protection in India*” in the International Conference, held at Banaras Hindu University, Varanasi, organized by Faculty of Management Studies, B.H.U., Department of Geography, B.H.U. and Global Strategic Management Inc. Michigan., U.S.A from 11<sup>th</sup> -15<sup>th</sup> January 2010
- vi. **Dr. Sandeep Kumar**, Dept. of Commerce, Participated in 9<sup>th</sup> International Conference on Emerging Issues in Accounting & Finance, Infrastructure Development, Information Technology, Business and Management organized by Research Development Association, Jaipur 15<sup>th</sup> to 16<sup>th</sup> January 2010.
- vii. **Mrs. Sumita Roy**, Dept. of Commerce, participated in 9<sup>th</sup> International Conference on “Emerging issues in accounting and finance, infrastructure development, information technology, business and management” dated 15<sup>th</sup> & 16<sup>th</sup> January 2010 organized by “The Research & Development Association , Jaipur in collaboration with “The Rajasthan Chamber of Commerce & Industry, Jaipur.
- viii. **Shri. Lalit Sharma**, Dept. of Commerce, participated in 9<sup>th</sup> International Conference on Emerging Issues in Accounting & Finance, Infrastructure Development, Information Technology, Business and Management organized by Research Development Association, Jaipur from January 15 – 16, 2010.
- ix. **Dr. Ashutosh Roy** presented a paper in the International Seminar on “*Diaspora Space: Voices and Voyages*” held in Feb 2010 at Jamshedpur Women’s College, Jamshedpur.
- x. **Dr. Achal Sinha** presented a paper in the International Seminar on “*Diaspora Space: Voices and Voyages*” held in Feb 2010 at Jamshedpur Women’s College, Jamshedpur. Title of the paper was “*Identity and Homeland: Parallel Aspirations in the Inheritance of Loss.*”
- xi. **Mr. B. K. Sinha**, Dept. of Political Science, attended ICSSR sponsored International Conference on “*Democracy, Federation and Peace*” organized by the Deptt.of Political Science, Dyal Singh College, Karnal, March’2010

**B. TEACHERS PARTICIPATION IN NATIONAL SEMINARS/ WORKSHOPS/ CONFERENCES/ SYMPOSIA:**

- i. **Dr. Bharti Singh Raipat** Department of Zoology
  - a. attended Summer Fellowship Programme jointly sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and Indian Academy of Science, Bangalore on *Feasibility of adding Environmental value to Congress Grass and Long Grass through Vermitechnology* at Centre for Environment and Vocational Studies, Punjab University in May-June.

- b. presented a Research Paper in National Conference on ***Present Scenario of Environmental Pollution and its Effects on Living Organisms*** Organized by Government College of Arts and Science, Aurangabad in collaboration with National Environmentalists Association Sponsored by UGC CSIR Dept of Earth Sciences and MOEF in December
- ii. **Dr. Marcus Barla** Department of Economics participated in 92<sup>nd</sup> Indian Economic Conference (IEA): December 27-29, 2009, KIIT University, Bhubaneswar, Odisha, India; Presented a paper, “***Development Projects and Displacement of Tribals in Jharkhand: (A Case Study)***”.
- iii. **Thomas Ddungdung** Department of English participated in a National Conference in July 2009 at Jamshedpur Women’s College, Jamshedpur, Jharkhand.
- iv. **Dr. Shiv Kumar**, Dept. of Geography has undergone a Training Programme on “**Strengthening, Capacity Building and Awareness Generation for Effective Implementation of the RTI Act**” sponsored by Deptt. of Personnel and Training, Govt. of India from 29<sup>th</sup> Oct - 31<sup>st</sup> Oct, 2009 at Sri Krishna Institute of Public Administration, Ranchi.
- v. **Mrs. Seema Khalkho**, Dept. of Functional English participated in
- a. workshop on “**Action Research for Professional Development**” held at Andhra Loyola College, Vijaywada Andhra University from 8<sup>th</sup> to 10<sup>th</sup> December 2009.
  - b. Workshop on “**Finalization of the Syllabus for High School Teacher’s Training**” held at ELTI DIET Campus Ratu, Jharkhand in August, 2009
- vi. **Dr. Kamal Kr. Bose**, Dept. of Hindi participated in :
- (a) National Seminar at Kendriya Hindi Sansthan, Agra on 19<sup>th</sup> & 20<sup>th</sup> January 2010 {Prayojan Mulak Hindi Aur Media}
  - (b) National Seminar on ‘**fgUnh ,oa vU; Hkk"kkvksa dh 'kCn&dks'k ijEijk esa >kj[k.M dk ;ksxnku** ’ at St. Xavier’s College, Ranchi on 21<sup>st</sup> & 22<sup>nd</sup> February 2010.
- vii. **Dr. Jai Prakash Pandey**, Dept. of Hindi participated in National Seminar on ‘**fgUnh ,oa vU; Hkk"kkvksa dh 'kCn&dks'k ijEijk esa >kj[k.M dk ;ksxnku** ’ at St. Xavier’s College, Ranchi on 21<sup>st</sup> & 22<sup>nd</sup> February 2010.
- viii. **Dr. Sunil Kr. Bhatia**, Dept. of Hindi participated in National Seminar on ‘**fgUnh ,oa vU; Hkk"kkvksa dh 'kCn&dks'k ijEijk esa >kj[k.M dk ;ksxnku** ’ at St. Xavier’s College, Ranchi on 21<sup>st</sup> & 22<sup>nd</sup> February 2010.
- ix. **Dr. Meltina Toppo**, Dept. of Hindi participated in National Seminar on ‘**fgUnh ,oa vU; Hkk"kkvksa dh 'kCn&dks'k ijEijk esa >kj[k.M dk ;ksxnku** ’ at St. Xavier’s College, Ranchi on 21<sup>st</sup> & 22<sup>nd</sup> February 2010.
- x. **Dr. Ravi Shankar Sahay**, Dept . of History, participated in National Seminar on Indian History Congress, New Delhi in May 2010.

- xi. **Dr. Shreeman N. Tiwary**, Dept. of Physics, participated in National Seminar on “*Photonics and Materials*” (naspam – 2010) organized by Dept of Applied Physics; Indian Schools of Mines, Dhanbad; during 25<sup>th</sup> to 27<sup>th</sup> March 2010.
- xii. **Dr. N. Venkat Appa Rao**, Dept. of Zoology has participated as delegate in the *National seminar cum exposition on modern microscopes and their applications*, held at University Science Instrumentation Centre, The University of Burdman , April 08- 09, 2010.
- xiii. **Ritesh Kumar Shukla**, Dept. of Zoology has participated as delegate in the *national seminar cum exposition on modern microscopes and their applications*, held at University Science Instrumentation Centre, The University of Burdman, April 08-09, 2010
- xiv. **Mrs. Sanyukta Kumar**, Dept. of Biotechnology, participated in National Seminar on Modern Microscopes and their applications in University Science Instrumentation Centre, University of Burdwan from April 8-9, 2010
- xv. **Dr. Jayant Sinha**, Dept of Geology, Attended two days regional workshop on “*Exploration, Development and Management of Ground Water in Hard Rocks with special reference to Jharkhand State*” on 25<sup>th</sup> and 26<sup>th</sup> March 2010, organized by Govt. of India, Ministry of Water Resources at Sri Krishna Institute of Public Administration (SKIPA), Ranchi
- xvi. **Dr. Ravi Shankar Sahay**, Dept. Of History participated in 70<sup>th</sup> session of Indian History Congress, held at Delhi University, Delhi from 15<sup>th</sup> to 17<sup>th</sup> May 2010. Title of his paper was “*Nature and Significance of Tribal Movements in Colonial Jharkhand*”.

#### C. TEACHERS PARTICIPATION IN STATE LEVEL SEMINAR

- i. **Dr. Sandeep Kumar**, Dept. of Commerce Participated in Seminar on Rethinking Marketing Emerging Paradigms organized by Kejriwal Institute of Management, Ranchi, 11<sup>th</sup> April 2010.
- ii. **Shri Lalit Sharma**, Dept. of Commerce, participated in Seminar on Rethinking Marketing: Emerging Paradigms organized by Kejriwal Institute of Management Ranchi on April 11, 2010.

#### D. PUBLICATION OF BOOKS/CHAPTERS:

- i. **Dr. Sujit Bose**, Department of English published a book titled – *Flowers of the Soul* ; ISBN Northern Book Centre, New Delhi 2009
- ii. **Dr. Ashutosh Roy**, Department of English published a book titled – *Fictional Works of Bhabhani Bhattacharya*; ISBN 978-81-907748-7-1, Satyam Publishing House, New Delhi 2009
- iii. Ph.D. Research Thesis ‘*Indian Opium and Sino-Indian Trade Relation 1801-58*’ of **Dr. Franklin Baxla**, Department of History, was published in book form by the London University Press and listed in the World Catalogue under ‘**Opium History Books**’ made available worldwide.
- iv. **Dr. Sushil Rajgharia** published a book titled “*The Tribal Soldiers’ of Mahatma Gandhi*”, Satyam Publication, New Delhi, 2009

- v. **Dr. N. Venkat Appa Rao**, Dept. of Zoology coauthored a chapter “*Corpuscles of Stannius of air breathing teleost: Ultrastructure and cellular composition*”, published in *New Frontiers of Zoology*, Narendra publishing House, Delhi, India. pp 273-283.

#### E. PUBLICATION OF PAPERS/ARTICLES IN INTERNATIONAL/ NATIONAL JOURNALS

- i. **Dr. Bharti S. Raipat**, Dept. of Zoology and **Shri Deokant**, Department of Biotechnology has published Research paper on:
- ‘*Studies on Serum Protein Profiles as Biomarker of Cancer*’ was published in ‘Bioscan’ 4(1):157-160, 2009.
  - ‘*Impact of Aging of Earthworm Middens on Density Dynamism and Biomass of Microbial Population*’ was published in the Bioscan 4(3): 535-538, 2009
  - ‘*Restriction endonuclease base polymorphism analysis*’ of carcinogenesis in Bioscan: 4(4) 2009.
  - ‘*Restriction Endonuclease based DNA Polymerism Analysis of Carcinogenesis*’ in the Bioscan 4(4):621-624, 2009.
- ii. **Dr(Mrs.) Sumana Ghosh**- Department of English published a paper titled “*The Poetry of Ravi Nandan Sinha and Niranjan Mohanty: An Overview*”; The Quest, Vol. 23, No. 2 Dec. 2009 ISSN 0971-2321
- iii. **Dr. S. N. Tiwary**, Dept. of Physics published a full length paper on “*Measurement of Electrical Resistivity of Hariajam Coal at Different Moisture Content Values*”, in the Proceedings of National Seminar on “Recent Trends in Emerging Frontiers of Physical Sciences”, (RTEFPS – 2009); during Nov. 02-03, 2009 at B.I.T., Sindri; Ed. by D. K. Giri & Mahan M.K.; Sindri, Jharkhand, India; pp: 210-214; 2009.
- iv. **Mrs. Anupama Bhargava**’s article on
- ‘*Comparative study of Teaching Skills of in Service Teachers trained through regular and distance mode*’ published in Journal of Education Research of Pakistan Vol.12.No.01 (2009).
- v. Research paper of **Dr. Shiv Kumar**, Dept. of Geography, on ‘*Legal Provisions for Environment in India*’ was published in Conference Proceedings Vol. 1 pp 414 -426 of the International Conference on Strategic Management of Energy, Environment and Disaster for Sustainable Development organized by Faculty of Management Studies, B.H.U. Dept. of Geography, B.H.U. and Global Strategies Management Inc. Michigian., U.S.A. from January 11-15, 2010
- vi. **Shri B K Sinha and Dr. Harishwar Dayal**, published a paper titled ‘*Jharkhand: Politics of Performance*’ in *Economic & Political Weekly*, Vol. XLIV, No 39, September 26, 2009, pp. 145-7.
- vii. **Dr. S. K. Ghosh**, Dept. of Commerce has published following articles in **EIRC NEWS**:

- i. **“IFRS- Its present role in Global Financial Reporting System”**, Vol. 3 No. 2, 15<sup>th</sup> March 2010
- ii. **“Financial Derivatives: Options – An overview”**, Vol. 3 No. 6, 15<sup>th</sup> July 2010

#### F. TEACHERS AS RESOURCE PERSON:

- i. **Dr. N. Venkat Appa Rao**, Department of Zoology was invited as speaker to deliver a lecture on *Regulation of Stress Indicator; Cortisol: A Non-Classical Perception* at 20<sup>th</sup> All India Congress of Zoology and National Seminar on Bioresources and its Management for Food, Livelihood and Environmental Security & National Helminthological Congress during December 29-31, 2009 held at CIFE Mumbai.
- ii. **Dr. A. K. Srivastava**, Dept. of Botany
  - a. delivered a series 5 motivational lectures to the officers of the Department of Posts ( 4 in Ranchi and 1 in Dhanbad) Jan 12- Jul 21.
- iii. **Shri Deokant** of Department of Biotechnology was appointed as external examiner for conducting M.Sc. Biotechnology (previous year) practical examination on 16/09/2009 at Institute of Biotechnology, Magadh University, Bodh Gaya, Gaya, Bihar.
- iv. **Shri Sanjay Kumar**, Dept. of Physics was a member of the committee constituted to frame **Regulations for Constituent Autonomous Colleges under Ranchi University**.
- v. **Dr. Kamal Kr. Bose**, Dept. of Hindi was resource person in:
  - Ph.D. open viva, Bhagalpur University, 6<sup>th</sup> January, 2010
  - Hindi Workshop – MECL, Tupudana on fgUnh esa i=kpkj] fVli.k vkys[k - 29<sup>th</sup> & 30<sup>th</sup> March 2010
  - AIR Ranchi, “VAANI” Pronunciation & Articulation – 20<sup>th</sup> April 2010
  - Hindi Workshop – Staff Training College, CMPDIL on fgUnh orZuh] v’kqf);kj – 3<sup>rd</sup> June 2010
  - Orientation Programme UGC– Academic Staff College, Ranchi 11<sup>th</sup> July 2010
- vi. **Sri B. K. Sinha**, Dept. of Political Science, was Co-ordinator, State of the Nation Survey – Naxal Study, May’ 10

#### G. TEACHERS WHO PARTICIPATED IN REFRESHER/ORIENTATION COURSE:

- i. **Shri Deokant** of Department of Biotechnology participated in 54<sup>th</sup> **Orientation Programme** organized by UGC-Academic Staff College, Ranchi University, Ranchi from 3<sup>rd</sup> -30<sup>th</sup> July 2009 and got ‘A’ grade.



- ii. **Shri Animesh Roy** of Department of Geography attended Orientation Programme– Winter School - Principal subjects – *Globalization* Organised by Academic Staff College, Ranchi University, Ranchi.
- iii. **Dr. Shiv Kumar**, Dept. of Geography participated in Refresher Course sponsored by UGC, held at Academic Staff College, Ranchi University, Ranchi from 24.7.09 to 13.8.09.
- iv. **Shri. Birendra Kr. Bhagat**, Dept. of Chemistry participated in Refresher Course sponsored by UGC, held at Academic Staff College, Ranchi University, Ranchi from 2.12.09 to 22.12.09.
- v. **Dr. Harandra Nath Kumar**, Department of Chemistry participated in Refresher Course sponsored by UGC, held at Academic Staff College, Ranchi University, Ranchi from 2.12.09 to 22.12.09.
- vi. **Fr. Xavier Tigga, S.J.** Dept. of Education participated in Orientation Programme on - ‘Adolescence education programme UDAAN’ organized by SCERT Project officer Mr. P.K. Jha at Govt. Teachers Training College, Ranchi on 11.09.2009 and HRD Dept. MDI Building, Dhurwa on 15.9.2009.
- vii. **Shri Sudhanshu C. Kujur**, Dept. of Education participated in Orientation Programme on ‘Adolescence education programme UDAAN’ organized by SCERT officer Mr. P.K. Jha at HRD Dept. MDI Building, Dhurwa on 15.9.2009.

## RESEARCH SUPERVISION

- i. Lalita Kumari, was awarded Ph.D. on 21.8.2009 by Ranchi University, Ranchi under guidance of **Dr. Kamal Kr. Bose**, department of Hindi, St. Xavier's College, Ranchi. The topic of her thesis was ‘fgUnh dks"k vkSj >kj[k.M’.

## H. STATE GOVT. PROJECT

**Dr. R.N. Sinha**, H.O.D. English is working on a project of the Ministry of Information and Broadcasting, Government of India concerning ‘*The Speeches and Writings of Netaji Subhash Chandra Bose*’.

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

3 UG courses were introduced –

- i. Bachelors in Retail Management
- ii. Bachelors in Financial Market Operation
- iii. Bachelors in Gaming and Computer Animation.

### 3. Innovations in curricular design and transaction:

After the college became autonomous, all the departments of the college re-designed the curriculum with two primary objectives i). To make the curriculum more learner centered and ii). To incorporate new developments in the subject. Seminars, project work and similar learner’s activities

were introduced as pedagogical tools.

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

**None**

**5. Examination reforms implemented:**

- i. From the year 2009 onwards there shall be no supplementary examinations except for fifth and sixth semesters and that too only for those who have failed in any of the papers of fifth and sixth semester.
- ii. A student who has not been allowed to take the End-Semester Examinations on account of low percentage of attendance in a particular Semester, shall not be eligible to take the examinations for the papers of that Semester, unless he/she makes up for the short fall of number of classes. For the purpose, he/she shall have to attend classes (of the semester in which he/she was not allowed to write the End-Semester Examinations) with the regular students in the next academic year.
- iii. Such students shall have to obtain a certificate from the Head of the Department concerned, stating that he/she has attended required number of classes and that the student may be allowed to take the examination.

**6. Number of candidates qualified: NET/SLET**

Nil (data not available)

**7. Total numbers of seminars/workshops conducted: 9**

- i. **Two Seminars** were organized by the **Department of Hindi** on 31.9.2009 and 5.11.2009
- ii. **Three Departmental Seminars** were organized by **Department of Zoology** on *Endocrine Disorders* in August 2009  
*Energy transduction in Mitochondria* in Feb 2009  
*Bird Migration* on September 08, 2009
- iii. **Department of Mass Communication & Video Production organized 1 workshop and 1 seminar**
  - Workshop on *Media Appreciation* was organized during September 4-7, 2009.
  - One day seminar on *Career in Communication* was organized in collaboration with Delhi School of Communication, New Delhi on March 6, 2009.
- iv. A Science Exhibition was organized by the Faculty of Science on 14<sup>th</sup> and 15<sup>th</sup> September, 2009.
- v. Department of Mathematics, SXC with the support of Chotanagpur Mathematical Society organized “Research Nursery Programme” from 6<sup>th</sup> to 14<sup>th</sup> March, 2010, on

“q- series and Ramanujan’s Mathematics”. The Programme was conducted under the supervision of Prof. R. Y. Denis (Gorakhpur) and Prof. S. N. Singh (Jaunpur).

- vi. Department of Hindi organized National Seminar on ‘fgUnh ,oa vU; Hkk"kkvksa dh 'kCn&dks"k ijEijk esa >kj[k.M dk ;ksxnku’ on February 21 & 22, 2010
- vii. P.G. Department of Commerce organized seminar on ‘Present Position and Prospects on Health Care Sector in India on May 17, 2010
- viii. Dr. Namrita Lall, HOD, Botany, Medicinal Plants and Biotechnology of University of Pretoria, South Africa, was invited by the Dept of Botany to deliver a lecture for the benefit of faculty and students on”**Methods and future prospects of plants research**” at Fr Proost Hall on 29<sup>th</sup> June 2010.
- ix. **Department of Mass Communication & Video Production organized** Workshop on ‘New Age Carriers in Communication Media and Management’ was organized on January 13, 2010 with collaboration of CMS Noida

## 8. Research projects

### a) Newly implemented

- i. Shri B.K. Sinha, Department of Political Science is doing Major Research Project in *General Elections 2009 – A Behaviourial study of Political Attitude and Opinion in Jharkhand*.
- ii. **Dr. Marcus Barla**, Department of Economics is doing Minor Research Project. The Topic of his thesis is ‘Traditional Grain Bank Scheme as a Panacea of Food Insecurity of tribals in Jharkhand’.
- iii. **Dr. Fr. Emmanuel Barla**, Department of Political Science is doing Minor Research Project. The Topic of his thesis is ‘Ethno Medicine & Tribal Belief and Practice’.
- iv. **Dr. Sahendra Singh**, Department of Geology is doing Minor Research Project. The Topic of his thesis is ‘Geochemistry of Host Rock Associated with Orogenic Gold Mineralization within kunder Kocha Area, East Singhbhum, Jharkhand ’.
- v. **Dr. Navin Kumar**, Department of Geology is doing Major Research Project. The topic of his thesis is ‘Study of Natural Hazard in Parts of Jharkhand.

### b) Completed

- i. Dr. Ravi Shankar Sahay, Department of History completed Major Research Project in *Kherwarism among the Santhals : A Study in Revitalization Movement of a Tribe in Jharkhand*.
- ii. **Fr. Peter. Paul Ekka s.j.**, Dept. Ranchi University, has submitted his Ph.D. thesis on 17<sup>th</sup> February, 2010 on the topic ‘**Chemistry of some new normal and mixed valence polyoxomettalates containing two hetero atoms**’

## 9. Patents generated, if any

None

**10. New collaborative research programmes:**

None

**11. Total research grants received from various agencies**

Rs.4,30,500 from UGC

**12. Number of research scholars: 10**

- i. Mr. Thomas Dugdund, Ranchi University, Supervisor- Dr. Victor Tigga
- ii. Fr. Walter Ekka s.j. , Ranchi University, Supervisor- Dr. Lily Kawa Tigga
- iii. Fr. Ephrem Baa s.j., Ranchi University, Supervisor- Dr. Franklin Baxla
- iv. Ms Nusrat Ahmad, Ranchi University, Supervisor- Dr. S. N. Singh
- v. Ms Sumita Roy, Ranchi University, Supervisor- Dr. S. B. say
- vi. Fr. P. K. Soreng s.j., Ranchi University, Supervisor- Dr. A. K. Shrivastava
- vii. Ms Sanyukta Kumar, Ranchi University, Supervisor- Dr. A. K. Shrivastava
- viii. Mr. Ritesh Kr. Shukla, Ranchi University, Supervisor Dr. N. Venkat Appa Rao
- ix. Mrs.Juhi Horo, Ranchi University, Supervisor- Dr. Lily Kawa Tigga
- x. Peter P. Ekka, Ranchi University, Supervisor – Dr. S. K. Roy

**13. Citation index of faculty members and impact factor:**

Not available with the college.

**14. Honours/Awards to the faculty:**

- i. **Dr. N. Venkat Appa Rao**, Department of Zoology was awarded with **Senior Scientist Award 2009** on November 20, 2009 by Board of Trustees of Madhawi-Shyam Educational Trust & Academic Council of International Consortium of Contemporary Biologist through *2<sup>nd</sup> International Conference on Bio-Wealth Management for Sustainable Livelihood*
- ii. **Dr. Bharti S. Raipat**, Department of Zoology was awarded Fellowship of National Environmentalists Association on December 9, 2009.
- iii. **Mrs. Bharti S. Raipat**, Department of Zoology was awarded Ph.D. on 15.9.2009 by Ranchi University, Ranchi. The topic of her thesis was '**Studies on some aspects of reproduction, growth and bioremedial efficacy of cyanobacteria in context of pisciculture**'.
- iv. **Mrs. Nandita Das**, Department of Education was awarded Ph.D. on 26.8.2009 by Patna University Patna. The topic of her thesis was '**Contribution of Gijubhai: Lessons for Modern Primary Education**'.

**15. Internal resources generated:**

We generate internal resources under following heads:

- i. Certificate/ Add on Courses

- ii. Self-financing Courses
  - a. Biotechnology
  - b. BBA
  - c. Mass Communication & Video Production
  - d. Course in Human Rights
- iii. Sponsorships for Annual Function, College Magazine, Departmental Magazine
- iv. Venue for external examinations
- v. Interest from deposits
- vi. Project grants
- vii. Selling of forms

16. Details of departments getting SAP, COSIST/DST. FIST, etc. assistance/recognition

None

17. **Community services:**

National Social Service has conducted a number of programmes aimed at community service.

i NSS volunteers participated in a workshop on Creative Writing organized by Citizens Foundations. (04.07.2009)

ii NSS volunteers participated in a Seminar on Aapka Adhikar :Mera Adhikar organized by HOP ( Human Oriented Programme) (10.12.2009)

iii Organized Blood Donation Camp in Collaboration with Jharkhand Aids Control Society on September 7, 2009.

iv Participated in Blood Donation Camp organized by Raj Bhavan in July 2009.

v ENVIRONMENTAL CONSERVATION **DEPARTMENT OF ZOOLOGY** – carried out Plantation in Industrial Area, Tupudana Ranchi & Bariatu in July 2009 under guidance of Dr. Nasim Akhtar and Dr. Bharti S. Raipat.

vi. NSS volunteers organized Tree Plantation Programme at Tupudana on 5<sup>th</sup> March 2010.

vii. Students participated in the Blood Donation Camp on 10<sup>th</sup> April 2010 organized by NSS

viii. NSS volunteers organized Campus Cleaning Programme on 16<sup>th</sup> April 2010.

18. **Number of teachers and officers newly recruited:**

Lecturers = 05

- i. Reshma Toppo Department of B. Ed.

- ii. Sumit Kr Roy Department of Physics
- iii. Swadha Prakash Department of B. Ed.
- iv. Shivshankar Prasad Department of Biotechnology
- v. Sushil Kr. Pandey Department of Chemistry

Lab Technician = 01

- i. Megha Lakra Department of Chemistry

19. **Teaching – Non Teaching staff ratio:** 1: 1

20. **Improvement in the library services:**

New Books and Journals have been added. New library software procured to catalogue library books.

21. **Number of new books/journals subscribed and their value:**

	<b>No. of New Books</b>	<b>Total Cost</b>
1. Text books	498	Rs.15,00,512.5
2. Other books	7521	
3. Journals	18	

22. **Number of courses for which student assessment of teachers is introduced and the action taken on student feedback**

Internal Assessment of teachers by students is done every year in all the department.

23. **Unit cost of education**

Rs.9,713.62

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

Administration work , admission process and exams results are fully computerized. The computerization of library is in the process.

25. **Increase in the infrastructural facilities**

The infrastructure and learning resources have been upgraded, with qualitative improvement in facilities provided to the students and quantitative increase in resources already available.

The New Academic Block is operational. B.Ed classes shifted to New Academic Block.

**Following instruments were purchased for different departments under UGC BSR Scheme.**

- i. Sony Digital Camera Model 5-750
- ii. Isoamyle Alcohol , Calf Thymus DNA Cetyl Trimethyl Ammonium Bromide
- iii. 2 – Mercaptoethanol , RNase A Protinase K, Ethidium Bromide, Agarose, Canada Balsam, Light green
- iv. Laminar Airflow ‘Acco’
- v. Digital Electronic Balance KERN Model ALS – 220- 4 N
- vi. Incubator Bacteriological ‘Acne’
- vii. Microprocessor based ptt. System Systronics Model 362
- viii. Magnetic Stirrer Remi Model 2 MLH
- ix. Sony Das W 130 DGL Camera--2
- x. ITK 01 Double diffusion kit
- xi. ITK 03 Radial immuno diffusion kit
- xii. ITK 06 Rocket immuno electrophoresis kit
- xiii. ITK 08 Dot. Elisa kit
- xiv. ITK 14 Ig G Purification kit
- xv. LAD 02 500 bp ladder
- xvi. PMB 01 Protein Molecular Weight marker
- xvii. REN 009A Eco R 1
- xviii. REN 011A Hindi III
- xix. Combination UV-Visible Light Transilluminator ‘Hoefer’ USA
- xx. Thermal Cycler Multigene II Model TC020A Labnet
- xxi. Shaker Incubator CIS-24 BL Remi with 61 clamps
- xxii. Deionizer ‘Tanco’ model TM 100
- xxiii. Oven Universal ‘Tanco’
- xxiv. Digital Conductivity Meter with cell Systronics Model 304
- xxv. Handheld GPS Garmin 6PS72 - 5 pieces
- xxvi. Digital Camera DS-Fil – V2 Nikon
- xxvii. FTIR with ATR Alpha model, Brucker
- xxviii. Digital Balance
- xxix. Magnetic Stirrer
- xxx. Autoclave
- xxxii. Oven – 250 °C
- xxxiii. Ph Meter
- xxxiv. Ultrasonicator
- xxxv. Sen and Pandit Servo PSV 560
- xxxvi. Criyo Microtome MSW-459(B)
- xxxvii. Olympus Trinocular Microscope

**26. Technology up gradation**

Five CCTV cameras were installed for better surveillance and security.

## 27. **Computer and internet access and training to teachers and students**

All the departments are facilitated with one computer and Internet connection for the benefit of teachers & students as well as for smooth functioning of the department.

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

10% students are given freeship and needy students are granted concession of some fees. The student who gets 100% attendance is allowed to subscribe a Journal of his/her choice

## 29. **Activities and support from Alumni Association**

- (i) Flag Hoisting at Lohra Kocha Kalyan Samiti School.
- (ii) Gifts and sweets distributed to local children.
- (iii) Tree plantation done.
- (iv) Camp fire held on last Saturday of the year.

## 30. **Activities and support from the Parent – Teacher Association**

There is no Parent –Teacher Association in the College. Involvement from the parents is sought for Placements/Summer camps/ Industrial visits etc.

## 31. **Health services**

One doctor visits the college clinic to provide medical service to students and teachers. One Compounder is there to assist the doctor .

## 32. **Performance in sports activities**

Annual Sports Day was held in month of February.

- i. **INTER CLASS FOOTBALL (M) TOURNAMENT 2009 :**  
was organized by the Physical Education Department from July 25 to August 2009. The Tournament was inaugurated by Chief Guest Fr. Peter P. Ekka, S.J., Vice Principal. Total 57 teams participated in this tournament. The final match was played between Hindi (H) and B.A. Part II (Pol. Science ) department. **The winner was Hindi (H) department by 3-1.**

- ii. **PARTICIPATION OF STUDENTS IN RANCHI UNIVERSITY  
INTER COLLEGE TOURNAMENT 2009-10:**

**KABBADI:** Kabaddi tournament was organized by Doranda College, Ranchi on Nov. 6 & 7, 2009. St. Xavier's College, Ranchi played final match against Ranchi College, Ranchi. **St. Xavier's College was the winner.**

**FOOT BALL:** Football tournament was organized by Yogoda Satsang Mahavidyalay, Dhurwa, Ranchi from October 14 to 16, 2009. St. Xavier's College, Ranchi played final



match against Gossner College. **St. Xavier's College got second position.**

**BADMINTON:** Badminton tournament was organized by Nirmala College, Ranchi on September 24 & 25, 2009.

In the boys section St. Xavier's College, Ranchi played final match against Marwari College, Ranchi. **St. Xavier's College, Ranchi got the second place.**

In Girls Section, St. Xavier's College, Ranchi played the final match against Nirmala College. **St. Xavier's College, Ranchi was the winner.**

**PISTOL SHOOTING:** Pistol Shooting tournament was organized by C.I.T. Ranchi on November 14 & 15, 2009.

In Women's Section **Kumari Khushboo of St. Xavier's College, Ranchi got the 3<sup>rd</sup> position in the tournament.**

iii. **INTER COLLEGE INVATIONAL TOURNAMENT (2009):**

St. Xavier's College, Ranchi participated in Inter College Invitational Tournament (2009) which was organized by IIT Khargpur from October 23 to 26, 2009. St. Xavier's College, Ranchi participated in Volleyball event. Our college played final match against host team IIT, Khargpur and the title.

### 33. **Incentives to outstanding sportspersons**

Leave is granted to sportspersons while practicing and playing matches for the college.

Winners are honoured with cash incentives and medals during the College Day celebrations.

Those students whose performance is exceptionally good are granted free-ship.

In Sports Quota for Admission priority is given to the outstanding sports persons.

### 34. **Students' achievements and awards**

Many Prizes and medals are given to students for outstanding performance in academics. The academic performance of the students has been excellent. Every year two NCC cadets are selected for Republic Day Parade.

#### **NCC**

- Total Enrolment: 80 M + 80 F = 160
- Cadets participated in M.P. Election Duty and Pulse Polio Campaign Duty
- 30 Cadets participated in Independence Day and Republic Day Parade 2009, 2010 at Morabadi.
- 80 Cadets participated in CATC as well as ATC Camp held in Bariatu Army School.
- Senior Cadets Manish Kumar and Niyarjan Kumar are now in Army as Captain.
- Cadet Christina Deogam participated in Inter Group Governor Banner Championship held in Munger from Oct 4, 2009 to October 13, 2009.

## **MERIT SCHOLARSHIP**

Nine students of Physics Honours (Session 2007-10) who were awarded by INSPIRE Scholarship (by Govt. of India, Ministry of Science and Technology, D.S.T.). The Scholarship under INSPIRE is in recognition of student's talent and potential for pursuing research career.

1. Ankita Srivastava
2. Abhay Kr. Mishra
3. Rafia Ahmad
4. Kriti Kumari
5. Spripha Kumar
6. Ajit Kumar
7. Kumari Priyanka
8. Mukesh Kr. Yadav
9. Gopal Krishna Kr. Singh

## **OTHERS:**

- i. The model entitled *Water Hyacinth: Hidden Treasure* presented by Sweta, Amit Ranjan, Jay Prakash, and Amit Kumar Gautam got overall and departmental first prize in Science Exhibition organized by Faculty of Science, St. Xavier's College, Ranchi in 2009.
- ii. Rishi Raj got third prize in Hindi Debate competition in Xavier Utsav (Inter Class Academic & Cultural Competition) in 2009.
- iii. Prastuti Singh, Roll No. 923 of Part I participated in Ranchi University Youth Festival held at Nirmala College, Ranchi and won first prize in Debate.
- iv. Priya, Saquib Salim, Atul Aman and Anup Kumar of Part III participated in discussion on Recent Elections held at 'Manthan' Media House, Hindpiri, Ranchi conducted by MS New Delhi.
- v. Rohan Pathak, Roll No. 952 of part III and Gaurav Kumar Roll No. 914 of Part I participated in Ranchi University Fest Solo Singing competition and won first and second prize respectively.
- vi. Rohan Pathak participated in Youth Fest held at NIFT, Hatia and Spring Fest held at IIT, Kharagpur and won first prize.
- vii. The students of MCVP Part III (session 2007-10) produced six Documentary Films in six groups. These documentary films are:
  1. Fr. Van Winckel (Dada Saheb Phalke of Jhrkhand) (14':37")

2. Traveller's Catch... A documentary on expression (13':08")
3. A Day with an RJ (8':40")
4. A Battle Won, A War Lost (10':40")
5. Who Will Cry When They Die (10':20")
6. Jhankit Jhuggiyan (12':05")

Two documentary film (1) Life @ One Wheel and (2) Life Behind the Bars and two short films (i) Save the Girl Child and (ii) School Chalen Hum were selected and screened at Ranchi Film Festival organized by International Library and Cultural Centre, Ranchi in co-laboration with American Centre, Kolkata on February 18 – 19, 2009. These films were also screened at Cine Craft Film Festival held at Ranchi University on April 4-6, 2009 and well appreciated by the audience.

Students did on-line recording of the Ordination Ceremony of the Auxiliary Bishop Rt. Rev. Binay Kandulna on May 1, 2009 and earlier in February recorded different programmes during XAVIER UTSAV'09 AND College Annual Day.

- viii. Students of Biotechnology Sem V, Batch 2007-10) successfully completed major project works at different Research Institute/ Laboratories, Universities and Hospitals listed below:

- '***Cloning and expression of GFG gene and identification of GFG protein by western blotting***' at Best Biotek Rsearch Labs (P) Ltd. Bangalore.
- '***Production of vaccine against haemorrhagic septicaemia***' at Instt. Of Animal Health and Production, Ranchi.
- '***Isolation, identification, screening, production and purification of Nattokinase***' at Best Biotek Research Labs (p) Ltd. Bangalore.
- '***Prevalence of bacteria in urinary tract infections***' at Abdur Razzaque Ansari Memorial Weavers (Appolo Group), Ranchi
- '***Isolation, identification, screening, production and purification of Bacitracin from Bacillus species***' at Best Biotek Research Labs(p) Ltd. Bangalore.
- '***Isolation, identification, screening, production and purification of amylase***' at Best Biotek Research Labs(p) Ltd. Bangalore.
- '***Micropropagation of Aloe Vera with special reference to karyotype analysis and phytochemical assay***' at Birsa Agriculture University, Ranchi.
- '***Potential of phytoextracts against bacteria isolated from soil and leaf of tasar food plant***' at Central Tasar Research and Training Instt. Ranchi
- '***Protein profile of egg, larvae, pupa and adult of Antheraea mylitta Drury through qualitative and quantitative analysis***' at Central Tasar Research and Training Instt. Ranchi
- '***Study of antimicrobial property of Alternanthera species***' at Best Biotek Research Labs (p) Ltd. Bangalore.
- '***Production purification and optimization of protease***' at Best Biotek Research Labs (p) Ltd. Bangalore.
- '***Studies on in vitro Techniques***' at Birsa Agriculture University, Ranchi.
- '***Studies on in vitro Techniques of medicinal plants***' at Birsa Agriculture

University, Ranchi.

- '***Production of Streptomycin from Streptomyces griseus***' at Best Biotek Research Labs(p) Ltd. Bangalore.

- '***Application of molecular tools for genrtical research in tasar culture***' at Central Tasar Research and Training Instt. Ranchi.

- ix. The students of Zoology department actively participated in fieldwork on 'Apiculture' at Ramakrishna Mission Ranchi was carried on April 6, 2009. The students who participated were Aviroop Sinha, Gunjan Shukla, Rashmi Kumari, Nazia Sultan, Neha Singh, Reshma Kumari, Vidya E. Soumpy, Manvi Singh.
- x. Pratik Minj of session 2008-11 participated in All India Speech Competition organized by the Archaeological Department of Jharkhand and won the second prize in Speech competition.

### 35. Activities of the Guidance and Counseling unit:

There is a counseling cell providing career counseling. Individual departments have their own guidance and counseling units to help the students.

### 36. Placement services provided to students:

**We have incorporated the services of Indian Career Portal of Mumbai to our college website for providing database of companies having vacancies and assistance in resume writing for the students of our college.**

#### **DEPARTMENT OF MASS COMMUNICATION & VIDEO PRODUCTION:**

Eleven students of session 2006-09 got placement in various TV News Channel and four got placement in Print Media:

##### ***TV News Channel***

- Atul & Gaurav Sinha joined 365 Din
- Yogita Vir joined Mahua TV
- Shilpa Mishra joined Maurya Channel
- Atreyi Biswas, Rajeev Ranjan, Saurav Roy, Shweta Kumari, P. Lakra,

S. Priyadarshi, Anurag Thakur

##### ***Print Media***

- Shilpi, Deepak, Mukesh Bhatt joined Pioneer
- Shilpa Shree joined Hindustan Delhi

#### **DEPARTMENT OF FUNCTIONAL ENGLISH**

- Ms. Jennie Barnwal, Ms. Shikha Raj and Ms. Prerna Sharma of Session 2006-09 got placed in WIPRO, Kolkata through Campus Selection.

#### **DEPARTMENT OF PRINCIPLES & PRACTICE OF INSURANCE**

- Mr. Debagraha Deb, Zonal HR Head from Kolkata & Mr. Prabir Prakash, Area Sales Head visited the college campus and recruited 15 students for on job training and Placement.

#### **DEPARTMENT OF FINANCIAL MARKET OPERATION**

- Mr. Debagraha Deb, Zonal HR Head from Kolkata & Mr. Prabir Prakash, Area Sales Head visited the college campus and recruited 25 students for on job training and Placement.

#### **DEPARTMENT OF RETAIL MANAGEMENT**

- WIPRO BPO selected Ms. Swarnali Mukherjee as Brand Ambassador for brand promotion and co-curricular activities for the operation in the Ranchi District.

#### **37. Development program for non-teaching staff**

Computer operating skills were imparted to the non-teaching staff of the college as part of an ongoing effort to streamline office work.

#### **38. Any other relevant information the institution wishes to add:**

We have acquired 15 acres of land alongside Ranchi-Tata road for extension activities

3 acres of land has been purchased in Pithoria, Ranchi for the same purpose.

#### **Part C: Explain the plans of the institution for the next year**

- Starting new Master's level courses
- Building a separate structure with modern facilities in the newly acquired campus
- Enhancing research facilities by setting up central research laboratory
- Strengthening Alumni Association

Name & Signature  
Co-ordinator IQAC

Name & Signature  
Chairperson IQAC