



THAKUR COLLEGE OF SCIENCE & COMMERCE

Shamnarayan Thakur Marg, Thakur Village, Kandivli (E.), Mumbai 400 101

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Annual Quality Assurance Report (AQAR)

Year of Report: 2006-2007

THAKUR COLLEGE OF SCIENCE & COMMERCE

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Part A:

Plan of action of IQAC and its fulfillment at the end of the academic year:

1. College applied for the permanent affiliation of the University of Mumbai, the L.I. C. Committee visited the College and reply is awaited.
2. As soon as the permanent affiliation is sought, we can go ahead for 12b and 2f recognition of U. G. C.
3. The College is looking forward for the permanent affiliation of the University and U. G. C. recognition in due course of time to acquire the status of Autonomous College.

Part B:

1. Activities reflecting goals and objectives of the Institution:

Thakur College of Science & Commerce was established in 1997, which currently the largest unaided institution of the state of Maharashtra with B grade of NAAC and ISO 9001: 2000 certification. The college is growing by leaps and bounds in various areas of infrastructure, courses, placements; supported by excellent staff and a progressive management. In the time span of 10 years, the college has achieved laurels in the fields of academics, co curricular and extra curricular activities like Sports, N.C.C., N.S.S. and Cultural. TCSC aims at imparting quality education to its 10,159 students and to help them become upstanding and responsible human beings & citizens. .

2. New academic programmes initiated (UG / PG):

- (A) T. Y. B. Sc. (Biotechnology) as natural growth
- (B) M. Sc. (Organic Chemistry) Part II as natural growth
- (C) M. Com. (E – Commerce) Part II as natural growth

3. Innovations in curriculum designing and transaction:

The syllabus is designed by the Board of Studies, University of Mumbai. Hence there is no scope for the lecturers to design the syllabus but some of the staff members are a part of the Syllabus Committee to contribute for framing of the syllabus.

Lecturers adopt innovative methods such as OHP, Charts, Projects, Working Models & LCD presentations to present the topic to the students so that syllabus can be covered in effective and efficient way. Extra lectures are engaged, if required, to make the concept clear to the students, as and when required.

We invite expertise from the industries and companies to deliver guest lectures so that we can develop contacts with leading industries and companies.

4. Inter-disciplinary programmes: Nil.

5. Examination reforms implemented:

During the academic year 2005 – 2006, alterations and reformatations are made, which are continued in the academic year 2006 - 2007. The A.T.K.T. examination for the second term was conducted in the month of January 2007 and results were declared before commencement of regular university examination.

The facility of obtaining photocopies of assessed and \ or moderated answer book\s by the examiner\s is \ are extended with a view to bring transparency in the examination system and ensure its credibility as per the instructions received from the University.

6. Number of candidates qualified (NET /SET)

Number of NET qualified candidates: Nil

Number of SET qualified candidates: 01

7. Number of seminars / workshops conducted:

This year following major activities were conducted by the college.

(A) Flute Recital – Sesquicentennial Celebrations: Thakur College participated in the Sesquicentennial Celebrations of the University of Mumbai and organized “Flute Recital” by Padmavibhushan Pandit Hariprasad Chourasiya on 23rd September 2006 at Thakur Auditorium. This was the occasion, when people witnessed magical melody.

(B) A National Seminar on “Technology and Risk Centric Banking Management of Operational Risk in Relation to Credit Development to SME Segment” on 30th November 2006. The Chief Guest of the seminar was Mr. P. K. Biswas, Executive Director, R. B. I.

The Guest of Honor was Mr. K. Unnikrishanan, Sr. vice President – Policy in Indian Bank’s Association (IBA), Mumbai – the Apex body of bankers in India. The seminar

Thakur College of Science & Commerce
was attended by 80 delegates from Industry, Banks and
Academics.

- (C) The Department of Zoology organized a 2 days “National Conference on Environmental Pollution & Toxicology” on 22nd and 23rd December 2006 as apart of Sesquicentennial Celebrations of the University of Mumbai. 306 delegates including 96 outstation delegates across the country attended the conference. 86 research papers were presented. Dr. Vijay Khole, Hon. Vice Chancellor, University of Mumbai inaugurated the Conference; Dr. A. D. Sawant, Hon. Pro Vice Chancellor, University of Mumbai was the Guest of Honor; Dr. Suryavanshi, Former Vice Chancellor, University of Nanded was the special Invitee. Dr. M. D. Zingade, Deputy Director, N. I. O. Regional Centre, Mumbai delivered the key note address. The valedictory address was given by Dr. Vishwas Chavan, Senior Scientist, N. C. L, Pune.
- (D) Our College hosted 19th Research Scholars’ Meet on 23rd and 24th February 2007, which was the joint venture of Department of Chemistry, Thakur College of Science & Commerce with Indian Chemical Society, Mumbai Branch. Research Scholars and Guides from various reputed institutes like BARC, IIT, MUCIT, CDCHEM etc. participated in the Meet. Hon Dr. S. Banerjee, Director, BARC inaugurated the Meet while Prof. G. D. Yadav, Head, Dept. of Chemical Engineering, MUICT delivered the valedictory address.

8. Research projects:

The staff members have taken up minor research projects funded by the University of Mumbai for the academic year 2006 – 2007. The projects are as follows –

- (a) Study of VAM association with the host under the influence of heavy metals ; Dr. Ajita Kumar, Dept. of Botany
- (b) Information Technology : Awareness & level of adaptation amongst cluster SME’s – An Empirical Sample Study; Mrs. Vinita Gaikwad, Dept. of Computer Science
- (c) Biochemical responses of mudskipper [*Boleophthalmus dussumieri* (Cuv.)] exposed to water soluble fractions (wsf) of gear oil; Dr. Shirley Agwoucha, Dept. of Zoology

- (d) Development of gas sensors based on conducting polymers with a view to apply this technology for the detection of freshness of the food ; Mr. Gitesh Padhye, Dept. of Physics
- (e) Fiscal reforms in Maharashtra : Issues & Concerns ; Mrs. Ritu Vashisht, Dept. of Commerce
- (f) Rehabilitation of the sick units in Thane District ; Mrs. Nisha Bhatnagar, Dept. of Economics
- (g) Identification of bacteria from marine sponge with respect to their bio – active potential ; Dr. Vitthal Mohite, Dept. of Zoology
- (h) To study the domestic garbage generated by the citizens of Thakur Complex and Thakur Village with its scenario of segregation ; Dr. Priti Gupta, Dept. of EVS
- (i) Evaluation of select of vegetable waste products & by products as fish feed ; Dr. Nandita Singh, Dept. of Zoology
- (j) Non popularity of science stream amongst degree students in Mumbai ; Mrs. Reshma Desai, Dept. of Computer Science
- (k) To develop model of self financing scheme for EBC students through self help group ; Mrs. Richa Jain, Dept. of BMS
- (l) Evaluation of Nanoparticles as a tool for pharmacological modulation of Angiogenesis ; Dr. Aparna Deshmukh, Dept. of Biotechnology

9. Patents generated: Nil

10. New collaborative Research programmes:

The Chemical Research centre at TCSC carry out various contract research projects for the industries, both from India and abroad. Companies from Europe have funded projects, which have been completed successfully. Recently, a Research Project is funded by Unilever Research, India.

11. Research grants:

Sr. No.	Title of the Project	Investigator	Amount (Rs.)
1	Study of VAM association with the host under the influence of heavy metals	Dr. Ajita Kumar	25,000 / -
2	Information Technology : Awareness & level of adaptation amongst cluster SME's – An Empirical Sample Study	Mrs. Vinita Gaikwad	20,000 / -
3	Biochemical responses of mudskipper [<i>Boleophthalmus dussumieri</i> (Cuv.)] exposed to water soluble fractions (wsf) of gear oil	Dr. Shirley Agwoucha	30,000 / -
4	Development of gas sensors based on conducting polymers with a view to apply this technology for the detection of freshness of the food	Mr. Gitesh Padhye	20,000 / -
5	Fiscal reforms in Maharashtra : Issues & Concerns	Mrs. Ritu Vashisht	15,000 / -
6	Rehabilitation of the sick units in Thane District	Mrs. Nisha Bhatnagar	20,000 / -
7	Identification of bacteria from marine sponge with respect to their bio – active potential	Dr. Vitthal Mohite	40,000 / -
8	To study the domestic garbage generated by the citizens of Thakur Complex and Thakur Village with its scenario of segregation	Dr. Preeti Gupta	25,000 / -
9	Evaluation of select of vegetable waste products & by products as fish feed	Dr. Nandita Singh	30,000 / -
10	Non popularity of science stream amongst degree students in Mumbai	Mrs. Reshma Desai	21,590 / -
11	To develop model of self financing scheme for EBC students through self help group	Mrs. Richa Jain	25,000 / -
12	Evaluation of Nanoparticles as a tool for pharmacological modulation of Angiogenesis	Dr. Aparna Deshmukh	45,000 / -

12. Number of Research scholars:

1. Faculty members involved in Minor Research Projects – 12
2. Faculty members pursuing Ph.D. – 06
3. Faculty members Pursuing M. Phil. – 06

13. Citation index of faculty members and impact factors: Nil

14. Honors / Awards of the faculty: Nil

15. Internal resources generated:

We have self financing courses like Computer Science, Information Technology Biotechnology, B.Com (Banking / Insurance), B. Com. (Accounting / Finance) and E – Commerce through which funds are generated.

We appoint lecturers from various departments in the College, in the concerned specialized area, along with the Guest lecturers for the self financing courses for optimum utility of the knowledge of the Faculty.

16. Details about SAP / COSIST / DST / FIST etc.: Nil.

17. Community services:

- (a) The N.S.S. Unit has worked in collaboration with Shri. Sathya Sai Seva Organization for upliftment of Sai Devli village and “Protein Rich Food Packaging Project” for malnourished people of India.
- (b) N.S.S. Unit carried out a blood donation camp on 13th September 2006 in collaboration with Sion Hospital and collected 245 units of the blood. The unit has also conducted a project on pulse polio in association with Samata Nagar Health Post, B.M.C and Amrai.
- (c) N.C.C. Unit of the College had organized a seminar on “Careers in Defence” on 26th October 2006. The cadets donated the blood to the victims of bomb blast at Army Hospital, Colaba. 50 cadets participated in Beach Cleaning Programme under able guidance of CPL Ajay Yadav.

18. Number of teachers and officers newly recruited: 31

19. Teaching and non teaching staff ratio: 86 : 45

20. Improvements in the library:**Total Area**

Main Library	7210 sq. ft.
Computer Library	740 sq. ft.
Digital Library	300 sq. ft.

Reading Area

Main Library	6463 sq. ft.
Computer Library	595 sq. ft.

Circulation Area

Main Library	407 sq. ft.
Computer Library	40 sq. ft.

Stack Area

Main Library	340 sq. ft.
Computer Library	105 sq. ft.

Total Seats

Main Library	660
Computer Library	48
Digital Library	19

Expenditure on Books * : 8, 46,509/-

No. of Books Purchased * :

Text Books	520
Other than text books	1605
Total	2125

* Some books are still in processing

No of CDs Purchased :

	No. of Titles	No. of CDs
Degree	46	72
Junior	14	44
Total	60	116

Book Bank Scheme : Yes

University Book Bank Scheme : Yes

21. New arrivals in the library:

Total No. of Magazines and Journals:

Journals	21
Magazines	35
Total	56

Total No. of Newspapers : 10

22. Students' feedback:

We have students' feedback mechanism, where we take feed back from the students for all the faculty members, at random. All the forms are collected and scrutinized by the feed back committee and scores are noted down. The scores are informed to the concerned staff members by issuing a letter from the Principal. The concerned staff members are being given guidelines from the Principal or senior staff member, if required.

23. Unit cost of education: Rs. 6674 / - per student**24. Computerization of work:**

1. Admission process
2. Notices
3. Letter Correspondence
4. General Register
5. Examination Process
6. Accounts and salary etc.

25. Infrastructure facilities:

- Research Center for Physical, Chemical and Biological Sciences
- Presentation Room
- Main and Computer Libraries
- 45 Class rooms
- Fully Equipped Laboratories
- Separate working area for self financing courses like Information Technology and Computer Science.
- Separate Staff rooms for Science And Commerce faculty
- Seminar Hall
- Net Campus Room
- Conference Hall
- Waiting lobby

- Spacious open quadrangle
- Lawn
- Play Ground
- Gymkhana
- Canteen
- Parking Place
- Garden lobby
- First Aid cum Counseling Center
- Digital Library

26. Technology up gradation:

1. Research – The Research laboratories have been provided with required latest facilities like Laminar Flow, Shakers, and Distillation Unit etc.
2. Presentations – The facility of Smart Board is provided for Audio-Visual presentations. There is a separate Presentation Room with all Audio Visual facilities to cater the needs of the students at the third year level or from the self financing courses.
3. OPAC System – OPAC System is installed in the Library for efficient and effective working of the Library.
4. Inter Net Connection – There are three broad band lines of 512 kbps. Provided in Post Graduate section, Internet Room and Other Computer Laboratories. A separate Inter Net Room is provided to the students and faculty for communication and up gradation.
5. Computers and LCD Projectors – We have nine computer Laboratories with latest configuration. The College has five LCD Projectors.

27. Training and access of internet to the staff and students:

We have a separate Internet Room with 32 computers, which works from 9.30 a.m. to 5.00 p.m. Students and Staff Members can avail the facility as and when required.

28. Financial aid to the students:

Some poor and needy students can not pay the fees at once; College provides them with the facility to pay the fees in installments. For some students the Management provides assistance to pay the fees or they have been given free ships. There are various Special Prizes sponsored for the Academic Toppers.

29. Alumni activities: Nil.

30. Parents Teachers Association (PTA):

We are in contact with the parents to inform them about the progress of their wards on regular basis. We send the letters from the College to make them aware about the attendance, their performance in examination and weekly tests etc. Parents Teachers meetings are conducted on regular basis to have one to one correspondence. During these meetings the Principal addresses the parents but class Teachers and other Staff Members are continuously maintain the pace with the students for smooth conduct of the College.

31. Health services:

- (a) N.S.S. Unit organized a project 'Healthy Youth for Healthy India' in association with Shri. Sathya Sai Biotechnology Lab, Aksha, Malad to make protein rich food packets for malnourished people of Maharashtra.
- (b) N.S.S. Unit carried out a blood donation camp on 13th September 2006 in collaboration with Sion Hospital and collected 245 units of the blood. The unit has also conducted a project on pulse polio in association with Samata Nagar Health Post, B.M.C and Amrai.

32. Performance in sports:

Our College has been placed at the 14th Rank in the University amongst all the colleges of the University.

1. Sushant shetty and Vimlesh Singh won gold medal while Surendra Mudliar and Kiranchandra Shetty won silver medal in boxing tournament at the University level. Sunil Maii won gold medal in Judo at the university level.
2. Pramod Shetty and Abhinda Sawant secured first place at the University, Combined University and West zone level in Badminton.
3. Mamata Sharma and Malini Singh won gold medal in Boxing at the Mayor's Cup. Vijay Chauhan won the gold medal in Boxing at the State level.
4. Divya Kathaware participated in Common Wealth Games at Sri Lanka in Karate and won bronze medal.
5. Volleyball (Boys), badminton (Boys) and Boxing (Boys) have participated in Inter Collegiate Tournament at K. E. S. College and secured first place and championship.
6. Bunt Dhiman & Craig D'Souza (Football); Pallavi Kotian, Kavita Singh, Amrin Mausum, Pooja Dandekar, Supriya Shetty, Divyaraj Chavan & Prashant Raut (Volleyball) have made the College proud by winning at Inter Collegiate, university, State, Inter University and national Level.

33. Incentives to outstanding sportsperson:

They have been given cash incentives according to their performance. They are entitled for the sponsored cash prizes. Along with that they have been given relaxation in their attendance for the lectures and / or practicals as per the provision of the University norms. They are provided with the extra and remedial coaching, if required.

34. Students' achievements and awards:

1. Mr. Vikram P. from T. Y. B. Com. designed a web site to bring world wide Tamilians together. He is the most famous and praised Tamilian all over the world. His efforts are appreciated by the world famous drummer Shivmani and famous play back singer Shankar Mahadevan. For his devotion and dedication, he is been felicitated at the hands of Hon. Pesident of India, His Excellence, Dr. A. P. J. Abdul Kalam. He is also felicitated by the Defence Ministry, Govt. of India.
2. Mr. Prathamesh Parab, a student of S. Y. B. Com. Climbed up the pinnacle called. "Takara" on 24th December 2006 with a group of "Shailbhramar", a mountaineering group of Maharashtra. Takara is one of the highest peaks in Sahyadri Ranges, situated near Salher Fort. It is about 264 feet in length and is very steep.
3. Mr. Rishab Pandya, from S. Y. B. Com. Started playing snooker at the age of sixteen and at twenty he won the Junior Snooker Championship at Bangalore in 2007.
4. Ms. Divya Kathawate (S.Y. B. M. S.) participated in Common Wealth Games at Sri Lanka and won bronze medal in karate.
5. Ms. Shrayan Akshata secured 2nd Rank at the T. Y. B. Sc. Examination of the University of Mumbai in Information Technology in March 2006 with 84.32 %.
6. Mr. Patel Divyesh from T. Y. B. Sc. (Mathematics) secured 8th Rank (overall) and 3rd rank (Mathematics) in the University in March 2006 with 90.50 %.

35. Guidance and counseling unit:

We provide services of professional counselors to the students. The activities include –

1. Career guidance and counseling
2. Diagnostic Aptitude Test and Analysis
3. Interview Technique Workshop, Personality Development Programmes
4. English Speaking, Communication Skills Enhancement etc.
5. Guidance for IIT
6. Training for MH-CET and AIEEE
7. Guidance for admission to the Foreign Universities

36. Placement services provided to the students:

The College has Training & Placement Cell (TPC) functioning from June 2004. The objective of the Cell is to fetch good opportunities to the students for which, they are to be trained. The Cell tries to contact companies and organizations in different sectors, where the students can choose their career for better future prospects.

This year we have contacted companies like J. P. Morgan Chase, Tech Mahindra, Infosys, TCS, WIPRO, Deutsche Bank, India Bulls etc. to place our students. 410 students enrolled in TPC to avail the facility, out of which we placed 313 successfully.

37. Development programmes for non-teaching staff:

Following programmes were organized for development of the non-teaching staff -

1. Computer Training for up gradation of technical knowledge
2. Workshop on “FISH Philosophy” to make the working atmosphere and culture healthy
3. Meetings with the Principal and Academic Advisor to keep them aware of the happenings in the College viz. NAAC, ISO Certification etc. to ensure them about their contribution and responsibility.

38. Any other relevant information: Nil.

Part C: Plan of the Institution for next academic year (2007 – 2008):

The College has completed 10 years of its existence and wishes to get into the phase of development from the phase of establishment. Hence, the College has decided the following goals for academic year 2007 – 2008:

1. Keen academic orientation of the students to concentrate on the merit along with the overall development of the personality.
2. Enhancement of the research and research oriented activities for the teaching staff and the students.

PRINCIPAL
Mrs. C. T. Chakraborty