

**Deccan Education Society's
Fergusson College, Pune**

**Annual Quality Assurance Report
Year 2010-2011**

**Submitted to:
National Assessment and Accreditation Council
Bengaluru**

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The Annual Quality Assurance Report (AQAR) of the IQAC

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Year of Report: 2010-2011

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

Plan

1. To develop a system for strengthening Academic and Administrative procedures of the college.
2. To document all the systems and Procedures of Academics and Administration.
3. To cater to the needs of slow learners.
4. Train students of Post Graduation for Competitive Examinations like UPSC/ MPSC and qualifying entrance exams for Teaching and Research.
5. Implement Performance Based Annual Assessment System prescribed by UGC.
6. Provide Additional resources to teachers and students involved in research.

Outcome

1. Formation of 23 committees for strengthening of Academic Procedures. All the committees were asked to submit Action Plan for the academic year and work to strengthen academic and administrative procedures. Introduction of Academic Audit for all Teachers to satisfy the need of 80% compliance in Teaching-Learning Process. Teachers were also imparted Mentoring Skills which helped them in counselling and mentoring students of under graduate. Apart from this, the heads of all the departments were given training in Capacity Building for three days.
2. Finalization of Systems and Procedures for all administrative and academic processes of the College. All the systems and Procedures are now well documented.
3. Remedial Teaching was introduced from this academic year for academically weak students.
4. For PG students of Arts and Science coaching classes were conducted for UPSC, MPSC and NET/SET exams in subjects like English, Economics, Marathi, Life Sciences, Physics, Chemistry and Electronic Science.
5. Implementation of Performance Based Annual Assessment System for all teachers.
6. INFLIBNET (UGC) Facility is provided to Research Students and all Teachers.
7. Establishment of Network Resource Centre in B. J. Wadia Library.

Part B:1. Activities reflecting the goal and objectives of the institution: **(Please Refer to Annexure –I)**

The activities reflecting goals and objectives of the Institution for the year 2010-2011 comprised of an array of Curricular, Co-curricular and Extra-curricular activities. A number of workshops and seminars were conducted this year for the students as well as Teachers.

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

- (i) Efforts are underway to start a course in “Business French” as a value addition component to present B.A. Degree. The sanction for this course is waited.
- (ii) Collaborative academic programmes like M.Sc. Clinical Microbiology and M.Sc. Food Biosciences have been initiated. The academic partners for these programmes are Deccan Education Society (Parent Body of Fergusson College) and Caledonian Glasgow University, Glasgow. The teachers of Fergusson College will be contributing in teaching the courses.

3. Innovations in curricular design and transaction:

Sr. No.	Department/ Subject	Innovations
1	Economics	<ol style="list-style-type: none"> (i) Compilation of Question Banks for preparation of Post graduate course entrance examination for Delhi School of Economics, Madras School of Economics and Jawaharlal Nehru University. (ii) Developing a pool of MCQ for Microeconomics. (iii) Conducted 50 viva voce presentations by students on research topic of their choice (decided in consultation with teachers). (iv) 30 lectures on wide ranging areas of economic policy problems were conducted as a training and orientation-cum-exposure tool in the research methodology course for T.Y.B.A. economics (special) students. (v) A course on Statistics Using Excel has been designed and was partially tried in M.A. classes. This will be fully implemented from next academic year. (vi) Pseudo or artificial sample data sheets for training in sampling theory of linear regression have been constructed.
2	Psychology	<ol style="list-style-type: none"> (i) Use of workshop method, group discussions, movies, role play, case studies for understanding different aspects of Psychology.
3	Sociology	<ol style="list-style-type: none"> (i) Continuous process of contemporarizing the curricular content (ii) Thrust on interdisciplinarity (iii) Focus on experiential learning (iv) Use of films and documentaries to supplement class room teaching learning. (v) Use of Case studies and card games for analyzing issues. (vi) Simulation exercises and role plays in class room. (vii) Use of short stories, novellas, poems, and autobiographies to get deeper insights into social issues like dalit atrocities, women’s oppression, tribal displacement and terrorism. (viii) Student Research on “The informal economy around Ganesh Ustav” to give hands on experience of doing research. (ix) Use of Street Play “PanilessPanipuri” and “GaonChodabNahin” to convey the effects of development on the poor and the marginalized.

4. Inter-disciplinary programmes started: Nil.

5. Examination reforms implemented:

- (i) The University of Pune has directed all affiliated Colleges to conduct First Year B.A., B.Sc. and B.C.S. theory and practical examinations at college level. Implementation of a new examination unit for first year examinations was carried out successfully. The examination and its related processes was carried out as per the guidelines of University of Pune.
- (ii) Department of Sociology included Film Review in the Internal Assessment Exam.
- (iii) Scientific Writing Skills were imparted to PG students of Chemistry.
- (iv) Multiple sets of Question papers for Internal Assessment Examination were set.

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

Sr. No.	Name of student	Subject	NET/SET/GATE
1	Shri. Rohan Kulkarni	Biotechnology	NET
2	Ms. Ruplai Kothawade	Biotechnology	NET
3	Ms. Anushri Kogje	Biotechnology	NET
4	Ms. Alisha Galande	Biotechnology	NET
5	Ms. Priyanka Sakhare	Chemistry	NET
6	Ms. Payal Ramteke	Chemistry	NET
7	Ms. Vaishali Kamble	Chemistry	NET
8	Ms. Madhurima Das	Chemistry	NET and GATE
9	Ms. Purva Bhoojane	Chemistry	NET
10	Shri. Chitaman	Chemistry	NET
11	Shri. Vaibhav Salve	Chemistry	NET
12	Shri. Pramod Agale	Chemistry	NET
13	Ms. Kalpana Kulkarni	Electronic Science	NET
14	Ms. Yogita Khandge	Electronic Science	NET
15	Shri. Sandip Dhawale	Electronic Science	NET
16	Shri. Chintamani Thite	Geology	NET
17	Mr.Sachin Kalel	Economics	NET

7. Initiative towards faculty development programme :

- (i) A Lecture series was organized for all Arts and Science Teachers from 26th February to 8th March. The lecture series included topics like, "Understanding University Statutes: My Rights and Responsibilities", "Health Hazards in Teaching Profession", "Investment Planning", "Disaster Management with special emphasis on Earth Quake and Terrorist Attack" and "Higher Education: Opportunities and Challenges".

- (ii) The faculty are continuously motivated to participate in various Refresher and Orientation Courses conducted by different Institutes and Academic Staff Colleges of Universities. The details of faculty development programmes are as follows:

Sr. No.	Name of Teacher	Department	Programme	Institute
1	Dr. Ms. Chitra Shreedharan	English	Orientation Programme	University of Pune
2	Shri. Prasanna Deshpande	English	Orientation Programme	University of Pune
3	Dr. Ms. Madhuri Gokhale	English	Refresher Course in Information Technology	University of Pune
4	Ms. Arati Khatu	Political Science	Refresher Course at Department of Defence & Strategic Studies	University of Pune
5	Dr. Prasad P. Joshi	Sanskrit	Orientation Course	University of Pune
6	Shri. S.K.Dhanmane	Chemistry	Refresher Course	University of Pune
7	Ms. Ujwala Patil	Chemistry	Refresher Course	University of Pune
8	Ms. Parbati Bandopadhyay	Chemistry	Orientation Course	Jadavpur University, Kolkatta.
9	Dr. S.G.Kulkarni	Physics	Orientation Course	University of Pune
10	Dr. R.S.Mahamuni	Physics	Refresher Course	University of Pune
11	Dr. K.M.Sonawane	Physics	Refresher Course	University of Pune
12	Shri. A.P.Yengantivar	Physics	Refresher Course	University of Pune
13	Shri. H.M.Gholap	Physics	Refresher Course	University of Pune
14	Shri. N.T.Mandlik	Physics	Refresher Course	University of Pune
15	Shri. A.P.Yengantivar	Physics	FIP, UGC	University of Pune
16	Shri. H.M.Gholap	Physics	FIP, UGC	University of Pune
17	Shri. N.T.Mandlik	Physics	FIP, UGC	University of Pune

8. Total number of seminars/workshops conducted: 30

Sr. No.	Department	No. of Seminars/ Workshops
1	Economics	01
2	Psychology	06 + 01 (National)
3	Sociology	09
4	Marathi	01 (Unicode) + 01 (NET/SET)
5	Electronic Science	01
6	English	01
7	Environmental Science	02
8	Physics	02
9	Geology	01
10	German	02

11	Biotechnology	01 (Quality Control in Industries)
12	Microbiology	01 (Analytical Techniques in Biochemistry)
	Total	30

9. Research projects
- a) Newly implemented: 20
- b) Completed: 20

(Please refer to Annexure-IV for Details)

10. Patents generated, if any: 03

(a) Name: Ms. Dhanashri Godbole

Department: Biotechnology

Patent No. US7,8333,797 B2

Date: 16th Nov. 2010

Title: Method of Staining Proteins using ALTA.

(b) Dr. S.L.Laware

Department of Botany

Patent No. 1053/MUM/March 2009

Date: March 2009

Published: Sept. 2010

Indian patent

(c) Dr. S.L.Laware

Department of Botany

Patent No. 2070/MUM/2010

Date: 21.07.2010

Title: Formulation for the treatment of Bacterial Blight Disease.

Indian patent

11. New collaborative research programmes: Nil.

12. Research grants received from various agencies:

UGC:

Rs.28,38,000/-

BCUD, University of Pune:

Rs. 25,21,000/-

NEAC Activity through Ministry of Human Resource Development:

Rs.10,000/-

(Please refer to Annexure-IV for Details)

13. Details of research scholars: **:(Please Refer to Annexure –II)**

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

15. Honors / Awards to the faculty:

Sr. No.	Name of Teacher	Honour/ Award
1	Dr. Ravindrasinh G. Pardeshi, Principal	Expert Member for the working group on Higher Education- XII th Five Year Plan, Planning Commission, New Delhi.
	Dr. Ravindrasinh G. Pardeshi, Principal	Expert Committee Member for Star College Scheme of Department of Biotechnology, New Delhi, Government of India.
2	Dr. Bharat P. Shinde Associate Professor of Botany	Selected as "Best teacher" (Non Professional Courses) from Urban Area under Quality Improvement Programme of University of Pune, for the year 2011.
	Dr. Pradeep Apte Associate Professor, Economics	Awarded Ph.D in Economics by University of Pune on Topic "A Study of Indian perspective of Selected Prospective Trade-Linkage Issues concerning WTO"
3	Dr. Ms. Meenakshi Suresh	Awarded Ph.D in Biochemistry by University of Pune.
4	Shri. Jayant V. Khedkar Head, Electronic Science	Best Teacher Award, IPA
5	Dr. Arjun D. Jadhav Associate Professor, English	Best Teacher Award by Pune Municipal Corporation.
6	Dr. Ram Mache Head, Geology	Chairman, Board of Studies in Geology, University of Pune.
	Dr. Ram Mache Head, Geology	Member, Academic Council and Faculty of Science, University of Pune, Pune
7	Dr. Ms. Tanuja Marathe Associate Professor, Geology	Member, Board of Studies in Geology, University of Pune, Pune.
8	Dr. Ms. Megha Deuskar Assistant Professor, Psychology	Best Paper Award at the 3 rd National Research Conference on "Managing Diversity for Inclusiveness: The Corporate Initiatives", held at the Sinhgad Institute of Management Computer Applications, Pune, from 20-22 nd , January, 2011.
9	Shri. Anil Sawarkar Assistant Professor, Psychology	3 rd Prize in Best paper Competition at the National Seminar on Individual and Collective Transformation: Insights from Indian Psychology, organized at Delhi University, 2011.
10	Dr. A.D.More Associate Professor Botany	Mahi Kavi Waman Dada Kardak Rajya Stariya Adarsh Professor Puraskar 2011.
	Dr. A.D.More Associate Professor Botany	Bhimsphurti Puraskar, 2011
11	Dr. S.L.Laware	Awarded Gold Medal for Oral Presentation at National

Associate Professor Botany	Conference on "Frontiers in Life Sciences", Sahrdabai Pawar Mahila Mahavidyalay, Baramati, 11-13 th January, 2011
Dr. S.L.Laware Associate Professor Botany	Awarded First Prize in Teachers Category at 5 th Inter-University Research Festival "Avishkar-2010" held at Maharashtra University of Health Sciences, Nasik, Maharashtra, 20-23 rd January, 2011.

16. Internal resources generated: Nil.

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

- (i) Departments of Botany, Zoology and Chemistry are DST-FIST supported.
- (ii) Departments of Physics, Electronic Science and Geology have Submitted proposal for DST-FIST support.

18. Community services:

Sr. No.	Department	Community Service
1	Geography	(i) "Geoinfo" services for providing any geographical information free of cost for general public.
2	Geology	(i) Dr.R.N.Mache- Founder Member & Member of the GEOFORUM- Association of Geologists and Hydrogeologists an NGO at Aurangabad, working in the field of Groundwater and watershed Management for last 5 years. Carried out geohydrological investigations & prepared geohydrological maps in the area located in the Aurangabad, Jalana & Jalgaon districts. Number of farmers were benefited with this investigation. Presently holding a post of Vice-President of the GEOFORUM since Feb.2009. (ii) Dr.Mrs.Tanuja Marathe- Founder Member and Vice President (Education and Technical) of Gemological Orientation and Development Society (GODS), Pune since 2002. Rotary Ann since 1996, an International NGO working for community service in various fields.
3	Sociology	(i) Adult Literacy Programme (ii) Eco Friendly Ganesh Visarjan (iii) Need Assessment Survey on FC road and Karve Road (iv) Rally For Dignity (v) Working with Doorstep Schools: This is an NGO working in the area of providing education to the underprivileged children. Students went every Saturday for 3 hours. Reading stories, reciting poems, making toys and playing games were some of the activities they were engaged in. (vi) Working with the Visually Challenged Students of College: There are 20 visually challenged students in the senior college. Following activities were undertaken with them.

		<p>(vii) <u>Study Circle</u>: This was started to provide academic assistance to the visually challenged students in the college.</p> <p>(viii) <u>Get together</u>: To foster friendship between the blind and sighted students we organized a get together which included several games, singing, dancing and a cricket match.</p> <p>(ix) <u>Louis Braille Day</u>: The visually challenged students put up a spectacular show of their talent on this day. They played musical instruments, did mimicry, drew Rangoli, recited poems, sang 'hum hongekamayab' and told jokes. Mr. DhananjayaBhole of the University of Pune was the chief guest.</p> <p>(x) Working with AnkurVidyamandir-This is an inclusive school on Fergusson College campus. It has a very dynamic, creative and visionary director. This is our fourth year of working with Ankur. Students are placed as teacher assistants in the school. They help the teachers with the day to day activities which includes reading, writing, reciting, singing, dancing, painting and so on. Our students also help the school on special days like Rakshabandhan, Independence Day etc. Twelve students were placed this year that put in four hours of work per week.</p> <p>(xi) Visit to Hiware Bazar (September 4, 2010) -A village visit is a regular part of our activities. It is organized to expose the students to the realities of rural India. This year 17 students along with a teacher visited the village Hiware Bazar - a model village.</p>
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19. Teachers and officers newly recruited:

Sr. No.	Name	Designation	Department	Date
1	Ms. Panchsheela Kamble	Assistant Professor	Electronic Science	16 th Sept. 2010
2	Ms. S.K.Kokate	Assistant Professor	Physics	1 st March, 2011
3	Shri. A.N.Kawade	Assistant Professor	Physics	9 th March, 2011
4	Shri. Devdatta Upasani	Assistant Professor	Geology	21 st February, 2011
5	Shri. Ravindra.S. Shinde	Assistant Professor	Zoology	21 st February, 2011

20. Teaching – Non-teaching staff ratio: 1:1.5

21. Improvements in the library services: Nil.

22. New books/ journals subscribed and their cost:

Sr. No.	Books/ Reference Books/ Journals	Department	Cost (Rs.)
1	Reference Books	Economics	1,00,000
2	Books (316)	English	1,08,000
3	Books	Geography	5,000
4	Reference Books (11)	Psychology	10,109
5	Books (19)	Philosophy	6,135
6	Books (400) Journals (06)	Marathi	90,656 1,500
7	Reference Books (08)	Microbiology	38,907
8	Books (27)	Sanskrit	4,178
	Reference Books (87)	Biotechnology	1,42,476 16,827
9	Reference Books	Chemistry	1,50,000
	Reference Books	Computer Science	3,16,082
10	Reference Books	Electronic Science	42,778
11	Reference Books	Environmental Science	10,000
12	Books (25) Journals (01)	Geology	11,796 5,000
13	Reference Books	Physics	60,000
14	Books and Journal	Botany	14,000
15	General Zoology (20) Life Sciences (30 titles)	Zoology	26,000
		Total (Rs.)	11,59,444/-

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

Feedback from students on all courses from UG to PG is taken. The teachers were assessed by the students on varied parameters like Teaching Ability, Knowledge of Subject, Punctuality and Accessibility to Students. The feedback forms were submitted to IQAC. The IQAC carried out detailed analysis of the feedbacks and submitted a report to the Principal. The Principal communicated these feedbacks to the respective departments and the departments submitted a "Compliance Report" seeking improvement in the overall teaching-learning process.

24. Unit cost of education: Rs. 38,503/-

25. Computerization of administrative and the process of admissions and examination result, issue of certificates:

- (i) The Administrative office and departments are fully computerized for issue of certificates.
- (ii) The admissions to various courses are done by registering and submitting On-Line Application and Admission forms through the college website.

(iii) ERP services are being utilized to maintain student database.

26. Increase in the infrastructural facilities:

Sr. No.	Department	Infrastructural Facilities
1	Psychology	(i) Lockers for Teachers, three cupboards and One filing Cabinet for department of Psychology.
2	Physics	(ii) Experimental set up for ESR (iii) Four Probe Research Model (iv) Experimental Set up for Guoy's Method for Magnetic Susceptibility Measurement. (v) Hall Effect, Frank-Hertz and e/m experiment (vi) Experimental Set up to study photoelectric effect. (vii) Michelson Interferometer. (viii) Experimental set up to study Zeeman Effect. (ix) GM Counter (x) Hysteresis Loop Tracer. (xi) Digital balance. (xii) 30MHz Dual trace Oscilloscope.
2	Chemistry	(i) Instrumentation Laboratory for M.Sc. Analytical Chemistry, renovated and upgraded. (ii) Extension of M.Sc. Biochemistry is completed.
3	Microbiology	(i) Computer Tables. (ii) Library Table (iii) 02 Book Shelves (iv) Newly furnished Chemical Room (v) Separate Cabinet for UV Laminar Hood. (vi) Anaerobic Glove Box.
3	Zoology	(i) Electrification of Zoology Laboratories with Additional Electrical fitments. (ii) Addition of instruments like Autoclave and Spectrophotometer for Zoology.

27. Technology up gradation:

Sr. No.	Department	Technology Upgradation
1	Central Library	Computational Facility with net connectivity for PG students
2	All Arts Departments	Laptops/ Desktops/ Net book/ Printers
3	Psychology	Purchase of SPSS Software for Statistical analysis
4	Biotechnology	Precision Balance (01- Shimadzu, 01- Citizen), Vacuum Pump (01-Tarson) and Voltage Stabilizer (01-Remi)
4	Chemistry	Installation of Photocopying machine
	Environmental Science	Gramn ++ Software for GIS (Geographical Information System)
5	Electronic Science	Installation of DLP's in three laboratories

6	Physics	LAN for Computers, DLP and Netbook
7	Geology	Binocular Petrological Microscope with Photographic attachment. Global Positioning System (GPS). Satellite Imageries (02).

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

- (i) Training in SPSS Software for Psychology teachers.

29. Financial aid to students:

Sr. No.	Scheme	No. of students benefited	Amount (Rs.)
1	Earn and Learn Scheme 2009-10	28	1,91,939
2	Earn and Learn Scheme 2010-11	33	1,90,840

30. Support from the Alumni Association and its Activities:

- (i) Geological specimens, Books and cupboards were donated by Alumni of Department of Geology.

31. Support from the Parent-Teachers Association and its activities:

- (i) The Parent-Teacher Association activities will be geared up in the present academic year.

32. Health services:

- (i) Health Services are currently unavailable on campus.
(ii) The College/ Management authorities have tied up with a hospital adjoining the campus which provide 24hrs. health and emergency services.

33. Performance in sports activities: **(Please Refer to Annexure –III)**

34. Incentive to outstanding sportspersons:

The College encourages participation and excellence in sports through the following:

- (i) Preference in Admission to outstanding sportspersons.
(ii) Allowances to participants in sporting events.
(iii) Sports gear and equipment to participating students.

35. Student achievements and awards: **(Please Refer to Annexure –III)**

36. Activities of Guidance and Counselling Cell:

- (i) "MAANAS", Center for Psychological Testing and Counselling conducts Aptitude, Intelligence and Personality Testing and provides career and Personal Counselling to students.
- (ii) A workshop for 50 students was conducted from 3rd March to 5th March, 2011. The students were trained for Resume Writing, Group Discussion and Personal Interview.

37. Placement services provided to students :

- (i) Placement Assistance was provided to students of Life Sciences and companies like Lupin, Reliance Life Sciences conducted campus interviews.
- (ii) Department of Geology has contacted Institutes and Industries such as AAPG, Focus Energy, Sesa Goa Mines, OFI, ACWADAM, NERIL etc., for placement of students.
- (iii) Placement Assistance for UG and PG computer Sciences (MCS, MCA, M.Sc. Tech) are carried out every year. A total of 176 students in year 2010 and 57 students in 2011 were given placements in 47 IT companies in and around Pune.

38. Development programmes for non-teaching staff:

- (i) Stress Management sessions for Teaching and Non Teaching staff.
- (ii) Short course in Yoga and Naturopathy.

39. Best practices of the institution:

- (i) Establishment of Central Purchase Committee (CPC). Purchase of material, glassware and equipments/ instruments is now carried out through the CPC. CPS has identified and enlisted vendors and suppliers for all types of purchases including travel for field based projects.
- (ii) Consistent organization of Association Activities in all the departments which provide avenues to the students to express their talent in the subject by doing projects and presenting them.

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

- (i) Linkage with KSP Women's Studies Centre, University of Pune- A three month part time undergraduate course in "Women and Development" is conducted every year for the last 5 years for the college students by the Women's Studies Centre.
- (ii) Department of Environmental Science and Ministry of Environment and Forests, Government of India for National Environmental Awareness Campaign 2010-2011.
- (iii) Department of Environmental Science and Ministry of Petroleum and Natural Gas for PCRA activities.,

41. Any other relevant information: Nil.

Part C: Detail the plans of the institution for next year.

1. Focus on Quality of education by implementing Academic Audit for various courses.
 - a) Defining Roles and functions of Class In-charges.
 - b) Organize activities that would contribute to skill building like interpersonal skills, organizational skills and research skills.
 - c) Strengthen Students Feedback mechanism on Teachers' performance for academic improvement.
 - d) Introduce reforms in the Internal Assessment Examination by following continuous assessment system in the form of unit tests especially for T.Y.B.Sc. students.
 - e) Proactive implementation of mentoring programmes for under graduate students.
 - f) To evolve a system for Maintenance of instruments/ equipments in all the laboratories and central Instrumentation Facility.
 - g) Motivate faculty to participate in training programmes at Higher Learning Centres.
 - h) Promote "Staff Academy" where teachers from Arts and Science can share their views/ideas on academic development of the College.
 - i) Focus on "Overall Fitness" of the faculty.

**Dr. Sameer S. Terdalkar,
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Fergusson College, Pune**

**Dr. Ravindrasinh G. Pardeshi
Principal and Chairperson, IQAC
Fergusson College, Pune**

Annexure –I

Activities reflecting Goals and Mission of the College**Curricular Activities**

Sr. No.	Department	Activity
1	English	<ol style="list-style-type: none"> 1. State-level workshop sponsored by the University of Pune sanctioning a grant of Rs. 60, 000/- on 'Preparing for SET/NET exams in English' was held on Feb. 5 & 6, 2011. 2. A remedial course for post-graduate students with low competence in English was conducted by Dr. V.D. Phadke in the summer vacation and the Diwali vacation in 2010 and then continued during the current academic year.
2	Microbiology	<ol style="list-style-type: none"> 1. The department organized a workshop on "An Analytical techniques in Biochemistry" 5th Feb. 2011.
3	Psychology	<ol style="list-style-type: none"> 2. Three day workshop on "Projective techniques: Important tools of psychodiagnostic assessment", in September, 2010. 3. Workshop on "mentoring skills for teachers", on 15th September, 2010, by Megha Deuskar and Ms. Sheetal Ruikar. 4. Organised a UGC-sponsored National seminar on "Health and well-being: Contemporary issues and perspectives", in January, 2011 5. Observation Internship Program (OIP) in collaboration with Dr. Hemant Chandorkar, Psychiatrist, in January-February, 2011, to give the students of second year B.A. first hand experience of observing patient-doctor interaction in clinical set up. 6. Training workshop by Mr. Michael David on Organizational Change and Career planning, on 4th February, 2011. 7. Training workshop on "In-basket Technique: As a tool for selection", on 14th February, 2011. 8. Training workshop on FIRO-B on 22nd and 23rd February 2011 by Prof Bhagwatwar 9. Guest Lecture by Ms. Chitra Khare, on "Psychotic Disorders" in September, 2010. 10. A lecture series on "Sensitizing the Industrial Psychology Students towards work related Issues", in September, 2010.

4	Economics	1. Lecture series on SET/NET coaching from 24 th February 2011 to 21 st March 2011.
5	French	2. 4 th August—Talk by Mr San deep Nulkar on “Translation as a career”. This was followed by a 3 day seminar at BITS where the TYBA special students worked on translation assignments.3 of our students were taken on as trainees for a 6 month period
6	Physics	1. A one day seminar for M.Sc. students was arranged on 22 nd Jan. 2011, Dr. .S.R. Gowarikar - a well-known retired Nuclear physicist from BARC delivered a talk “Large hadron Collider” followed by a talk by Prof. P.B.Vidyasagar- Head dept. of Physics, University of Pune, on “ How do plants and bacteria respond to change in gravity”

Co-curricular Activities

Sr. No.	Department	Activity
1	Computer Science	<ol style="list-style-type: none"> 1. Career Planning in IT Industries by Ashutosh Gulanikar, TCS. 2. Writing correct programs by R. Venkatesh, TCS. 3. Internet Security by Atul Tulshibagwale, Linguanext. 4. Data Mining: Tools & Techniques by Dr. A.R. Dani, Symbiosis Institute for Computer Studies & Research,Pune. 5. Defence Applications of Smart materials by Dr.(Mrs.) Sangeeta Kale,DIAT, Pune. 6. Modelling and Simulation by Dr. Shakti Gupta, DIAT Pune. 7. Computer Science: Past and Future by Dr. L.M. Patnaik, Vice Chancellor, DIAT Pune. 8. What is research? By Dr. Uday Khedekar, Professor,Comp.Science Engg Dept., IIT Mumbai. 9. “ 2011 TOFEL scholarships” by EduComp Solutions Ltd. 10. “Avenues after graduation” by IMS Learning Resources Pvt. Ltd. 11. A lecture on topic “Nanotechnology” by Dr. (Mrs.) Sangeeta Kale (DIAT, Pune) was arranged for our under graduate students. 12. A lecture on topic “Embedded Systems” by Prof. Prasad Kathe (Director of MicroByte) was arranged for our under graduate students.
2	English	<ol style="list-style-type: none"> 1. A lecture series sponsored by the University of Pune sanctioning a grant of Rs. 20, 000/- on ‘Intedisciplinary Criticism’ was held on Jan. 21 & 22, 2011. 2. A lecture series sponsored by the University Grants Commission, New Delhi on ‘Preparing for SET/NET

		exams in English' was held in February & March, 2011. Total---lectures delivered by experts outside the college & the faculty members of the Dept. of English.
3	Geology	<ol style="list-style-type: none"> 1. Field Training on 'Geological Mapping in Sindhudurg area' was organized by Geological Survey of India, Operations-Maharashtra, Nagpur in the months of June 2010. Seven students of M.Sc.-II participated in this training. 2. A workshop was organized in the 'Groundwater Survey and Development Agency, Shivaji Nagar, Pune' on 8th April, 2011, wherein the students were exposed to techniques of Watershed Management and Watershed Development, Ground Water Budgeting etc. The students were accompanied by the following teachers: Mrs. Madhuri Ukey and Mr. Devdutt Upasani. 3. A ten days fieldwork was organized by Prof. S.D. Raut, Tour In-charge of T.Y.B.Sc. to Udaipur and Jodhpur from 30th December 2010 to 9th January 2011. The students were accompanied by the following teachers: Dr. P.K. Sarkar and Mr. Suyog Jagtap. 4. M.Sc.-I:- Students visited Diveghat area around Pune for understanding Geological and Structural mapping in Basaltic terrain under the guidance of Geologists from Geological Survey of India on 9th October 2010. Tour In-charge:- Mrs. Madhuri Ukey. 5. M.Sc.-I:- Students visited Chitradurga, Karnataka at the Geological survey of India-FTC, Chitradurga for understanding Geological and Structural mapping under the guidance of Geologists from Geological Survey of India, between 15th January 2011 to 26th January 2011. Tour In-charge:- Mrs. Madhuri Ukey, Mr.Aneesh Soman. 6. M.Sc.-II: - Students visited Nagpur area to study the exposures of Sakoli Group, Sausar Group and Gondwana Supergroup of rocks. They also visited various Geological Departments namely Geological Survey of India , National Institute of Soil Survey and Regional Remote Sensing Center. Students also visited various open cast and underground mines namely Maganese Mines, Mansar & Kandri, Fluroite Mine, Dolomite Mine, Kyanite – Silliminte Mines etc between 2nd January to 10th January 2011. Tour In-charge: Mrs.Madhuri Ukey, Mr.Aneesh Soman. 7. One day field work was organized for M.Sc.II Student on 27th March 2011 for Hydrogeological Mapping and Pumping Tests in eastern part of Purandar taluka under the guidance of Mr. Devdutt Upasani, Mrs. Madhuri Ukey and Mr. Aneesh Soman.

4	Hindi	द्वितीय सत्र में विश्वविद्यालय अनुदान आयोग द्वारा पुरस्कृत गुणवत्ता सुधार योजना के अंतर्गत हिंदी विभाग ने 'मानक हिंदी एवं हिंदी भाषा कौशल' विषय पर छः दिवसीय शिबिर का आयोजन किया था। इसमें हिंदी के मान्यवर व्याख्याताओं ने अपना योगदान देकर छात्रों को लाभान्वित किया। इस शिबिर का उद्घाटन पूर्व हिंदी विभागाध्यक्ष डॉ. अरुण पुजारी जी ने किया। डॉ. गोरक्ष थोरात (स. प. महाविद्यालय), डॉ. नीला बोर्वणकर(गरवारे महाविद्यालय), प्रा. नीला महाडीक(गरवारे महाविद्यालय), प्रा. अभ्यंकर (टिलक महाराष्ट्र विद्यापीठ) आदि व्याख्याताओं ने छात्रों का मार्गदर्शन किया। शिबिर का समारोह हिंदी विभाग के पूर्व अध्यक्ष एवं हिंदी विद्वान डॉ. स. म. परलीकर जी ने अपने सारगर्भित व्याख्यान से किया।
5	Political Science	<ol style="list-style-type: none"> 1. The students of SYBA (Political Science Special) took lead in inaugurating 'Politique', the Departmental Association and organized two group discussions on corruption: <ol style="list-style-type: none"> (a) Does the System breed corruption or is it a cancer on the System? (29th July 2010) (b) Corruption & Politics in Sports (16th August 2010) 2. The Department conducted a guest lecture on 'Understanding Contemporary World Politics' by Mr. Kedar Keskar on 26th July 2010. 3. The Department organized a screening of the Marathi feature film 'Samana' on 4th Sept 2010 followed by a discussion to enable the students to develop an understanding about caste politics in rural India. 4. The Department conducted a discussion for the students on 'Indo-US relationship' on 20th & 21st December 2010. 5. The Department organized a guest lecture on 'Research Methodology' by Prof. Kedar Deshmukh on 11th January 2011. 6. The Departmental Association organized an orientation programme for students on 'Career Opportunities in Higher Studies Abroad' on 15th February 2011 by Ms. Sarita Sinha from the Global Opportunities, Pune. 7. The Department organized a guest lecture by Col. Marathe on 'Indo-Afghan relationship' on 20th January 2010 jointly with the Department of Geography, Fergusson College, Pune. 8. The Kaivalya Education Foundation conducted an orientation programme for students on the 'Gandhi Fellowship' under the auspices of the Departmental Association on the 14th March 2011.

6	Geography	<ol style="list-style-type: none"> 1. A lecture-cum-slide show on “A Wonderland Called Egypt” by Principal (Retd.)Anil Dandekar (17/09/2010).This lecture was arranged in collaboration with the History Department. 2. A lecture on “Future of Afghanistan with reference to India” by Col.(Retd.) P.P.Marathe . (04/02/2011) The lecture was organized as a collaborative program of Geography and Political Science departments.
7	German	<ol style="list-style-type: none"> 1. Seminar on “ Higher Studies in Germany” by Dr. Anja Hallacker, Director West Zone, German Academic Exchange Service (DAAD) on 13th September 2010. 2. Lecture Series by a German student from Goettingen, Germany on the following topics: Culinary culture in Germany, German eating habits, Living in Germany, Opportunities of higher studies in Germany.(27th sep -1st Oct 2011) 3. Guest lecture by Mrs. Ulrike Schatz on ‘Austrian German’ [österreichisches Deutsch] on 15th Dec. 2010. 4. Lecture Series by Dr. Deepti Gangavane on German philosophers : ‘Immanuel Kant, Martin Heidegger and Friedrich Nietzsche as a part of TY Special paper III (German Philosophers) Oct 2010, Feb 2011
8	History	<ol style="list-style-type: none"> 1. Dr. Rekha Ranade , Prof. Dept. of History,University of Pune. Lecture on, ‘Science &Technology in ancient India’. 2. Dr. D.S. Gaikwad , Prof. Dept. of History, University of Pune, Lecture on , ‘ Foreign policy of America’ 3. Dr. Sumitra Kulkarni, HOD, Dept of History, University of Pune. ‘Social , religious condition of the Marathas in the 18th Century’ 4. Prof. Vijay Kunzeer, Prof. Tilak Maharashtra Vidyapeeth, Pune. Sir delivered a lecture on the topic entitled, ‘ History of south India’.
9	Psychology	<ol style="list-style-type: none"> 1. Outbound training program on “Group counseling skills”, in January, 2011, by Dr. Cristopher Rybak, Bradley University, US
10	Statistics	<ol style="list-style-type: none"> 1. F.Y.B.Sc. Statistics Talent Search Quiz (Intercollegiate Quiz organized by Pune University Statistics Association 2. (PUSA) for the students offering Statistics in F.Y.B.Sc. from various colleges affiliated to Pune University): 3. S.Y.B.Sc. Statistics Talent Search Quiz (Intercollegiate Quiz organized by Pune University Statistics Association (PUSA) for the students offering Statistics in S.Y.B.Sc. from various colleges affiliated to Pune University): 4. Prof. Mrs. Deepa Kulkarni worked as the coordinator at the college level.

		5. T.Y.B.Sc. Project competition : (Intercollegiate Project Competition organized by Pune University Statistics Association (PUSA) for the students offering Statistics in T.Y.B.Sc. from various colleges affiliated to Pune University)
11	Economics	1. Lecture on 'Investment in Share Market" by Chandrashekhar Thakur 2. Lecture on Union Budget 2011-12 Dated 11 th March 2011 By Dr.Pradeep Apte.
12	Physics	1. The inauguration of the Physics dept. annual activities was done by an invited talk on "Nano and Micro Technology in Medicine" by Dr. Dhananjay Bodas from Agharkar Research Institute on 28 th Aug. 2010. 2. Prof. MilindKunchur from North Carolina University USA delivered an invited talk of "Acoustics" in Oct. 2010. The following lectures were conducted as weekly lecture series: 1. Aniruddha Kibey (Research Scholar, University on Pune) : "Plotting Graphs" and "Linear Algebra" 2. Rohit Holkar (Research Scholar, Gottengin Germany) "Limits". 3. Abhilash Mishra (M.S.Oxford Univ, Research Scholar, Caltech, USA)conducted a series of more than 15 lectureson "Quantum Mechanics". 4. Jaydeep Belpure (Research Scholar, Max. Plank Inst. Germany): "Introduction to Plasma Physics", "Open Discussion Session" and "Definition of Heat and Its Laws" 5. Anjor Kanekar: (Research ScholarMaryland University, USA)"General Discussion on Classical Mechanics" 6. Siddharth Hegde (MS,UCL, London, Research Scholar, Max Plank Inst. Germany) "Radio Search for Extra solar Planets". 7. Prabhat Jha (M.Sc. II)"Summer Fellowships in Physics" 8. Asmita Bhandare (S.Y. BSc.) "Observational Astronomy" 9. Problem Solving Sessions were conducted throughout the year by Rucha Deshpande, Prachi Telang, Pradyumna Paranjape, Sanket Sen,Suraj Dhiwar, Sherry Chhabra and Asmita Bhandare.

Extra-Curricular

Sr. No.	Department	Activity
	Computer Science	1. Our department had organized our Annual Technical Festival – "Bits & Bytes" from 27 th January 2011 to 29 th January 2011. It was an intercollegiate event and it included Quiz Competition, Poster Competition, Project Competition and C Programming Competition. Around 25 Colleges across the City actively participated in the event.
2	Political Science	<ol style="list-style-type: none"> 1. The Departmental Fest, Quorum 2011 was organized as an inter-college festival between 31st January and 2nd February 2011. The events included the following: 2. Campaign Wars, a fiercely competitive presidential debate between two winners of the English debate and two winners of the Marathi debate eliminations held earlier. The winners were Shriranjan Avate for Marathi and Varun Tetaly for English. The Runners up were Sudarshan Shinde for Marathi and G Harishankar of the ILS Law College, Pune. Prof. Rekha Palshikar, Department of Political Science, Junior Wing, Fergusson College and Prof. Rekha Joshee, Department of Physics, Fergusson College judged the Elementary Round of the English debate. Prof. Santosh Ghuge, Department of History, Fergusson College and Prof. Santosh Pharande, Department of Economics, Fergusson College. Prof. Vijay Kunjeer judged the Campaign Wars' Final Round. 3. Brainsqueez, the General Knowledge Quiz Competition was very competitive and closely followed with 30 teams participating at the Elimination Round. 6 Top scoring teams were part of a Semi Final Round after which a Final Round of 4 teams was held. emerging as the winning team and coming second 4. The topic for the Article writing competition was 'Given the Present World Scenario, paint a verbal picture of the World War II' Pooja Ranawat (FYBA, Fergusson College) stood first. Prof. Kedar Keskar judged the articles. 5. The Poster-making competition was a creative exercise on 'Liberty, Equality & Fraternity' with Parul Vig from MIT SOG emerging as the winner and Shruti Apte & Isha Deodhar (TYBA, Fergusson College), Fergusson College came second. Prof. Sunita Pandhe-Gupta of the Department of Sociology and Prof. Deepti Gangawane, Head, Department of Philosophy judged the posters. 6. 'Save the Nation' was a novel Parliamentary Event, where the teams chose their political parties and took positions on an event threatening the Nation.
3	Geography	1. An open-air map exhibition was organized as a part of the departmental fest, on 27 th & 28 th January 2011 at

		the Central Garden near the Main building. More than two dozen physical & cultural maps ,some of them very rare, were on the display. This exhibition was organized by Geography and History departments as a combined activity.
4	German	<p>Film Screening :</p> <p>German Films „Margarette Steif” and “Jakob der Lügner” by Robin Williams were screened.</p> <ol style="list-style-type: none"> 1. The film„Margarette Steif” is a true story of a girl named Margarette Steif who is physically challenged. She was the first one who initially started the production of soft toys which have now become very popular all over the world. 2. The film Jakob der Lügner, (Jacob the Lyer) is about the Jews, holocaust, life in concentration Camps etc during the Second World War.
5	French	<ol style="list-style-type: none"> 1. 15th July-Talk by Prasad Brave on “French East India Company” Inauguration of French Cine Club. Screening of a French film in the department on every 4th Saturday of the month. 2. 24th July---Talk on “Scholarships and openings for students of FRENCH” by Devaki Erande and Varsha Modak.
6	Physics	<ol style="list-style-type: none"> 1. A new addition to the activities of the club was the inauguration of the monthly students bulletin “<i>Dimensions</i>” which is published by the students themselves. Our Ex-Principal V.K. Wagh inaugurated the bulletin in September 2010. 2. <u>International Asteroid Hunt</u> :This year Four students (Sanket Sen, Suraj Dhiwar, Sherry Chhabra, Asmita Bhandare and Dhaval Paranjpe) had the privilege to take part in this program under International Astronomical Space Campaign, whereby they confirmed the existence of five Near Earth Objects -NEO’s. 3. Frontiers in Physics-IV which has become an annual event now had 172 registered students and 8 teacher registrations (180 participants) from various institutions. We had speakers from India and Abroad to speak on various topics in the Frontier areas in Physics.

Annexure –II
Details of Research Students Registered for M.Phil and Ph.D

Sr. No.	Name of Student	Name of Guide	Subject	Title	Degree	Date of Registration
1	Shri. Thorat Santosh	Dr. A.D.Jadhav	English	Teaching Figures of Speech in Poetry at Secondary Level (X Class) in Maval Taluka of Pune District	M.Phil	08/05/2010
2	Mrs. Gauri Khaire	Dr. A.D.Jadhav	English	Teaching of Listening and Reading Skills at primary Level in Pune Municipal Corporation Girls School.	M.Phil.	Sept. 2010
3	Narjes Azimi	Dr. A.D.Jadhav	English	Discourse Analysis of the Selected Classic and Modern Tragedies: A Comparative Study	Ph.D	July 2010
4	Shri. Manohar Avhad	Dr. Ms. R. P.Ranpise	Hindi	Film Prakrita Sawrup avm Bhashagat Adhyan	M.Phil.	15/06/2010
5	Shri. Sharangdhar Jagtap	Dr. Ms. R.P. Ranpise	Hindi	Proganmulak Hindi	M.Phil.	15/06/2010
6	MS. Shweta Gaikwad	Dr. Ms. S.C.Abhayankar	Psychology	Work Place Flexibility, Sex-Role Identity, Work Life Imbalance and Burnout in Information Technology Employees.	Ph.D	12/05/2011
7	Ms. Anjali KEdari	Dr. Ms. S.C.Abhyankar	Psychology	Personality, Resilience, Academic Motivation, Readjustment and Stress in Indian Migrant Students	Ph.D	17/06/2011
8	Shri. A.B.Bhide	Dr. N.M.Kulkarni	Electronic Science	Preparation of Electrical energy consumption maps using power line communication and their use in decision support system for efficient electricity consumption	Ph.D	05/08/2010
9	Shri. V.P.Labade	Dr. N.M.Kulkarni	Electronic Science	Modeling and simulation fo battery performance parameters for elelctrical vehicles and varification using Hardware-in-loop (HIL) setup	Ph.D	05/08/2010

10	Shri. A.G.Buddhikot	Dr. N.M.Kulkarni	Electronic Science	Design of Multimodal smart interface for infotainment system with improved noise immunity	Ph.D	05/08/2010
11	Ms. Targol Abrishami	Dr. N.M.Kulkarni	Electronic Science	Development of quality monitoring application by integration of WSN and RFID in food and fruit container	Ph.D	
16	Ms. Shilpa Raskar	Dr. S. L. Laware	Botany	Influence of ZnO and TiO ₂ nanoparticles on cytology and growth in onion (<i>Allium cepa</i>)	Ph.D	14/01/2011
17	Ms. Ghazaleh Langarizadeh	Dr. S. L. Laware	Botany	"Bioconversion: a tool to enhance antioxidant potential of <i>Ganoderma</i> " (Registration) Provisional Admission	Ph.D	15/09/2010
18	Ms. Pegah Najaf Ramezani	Dr. A.D.More	Botany	Induction of Mutation in grasspea (<i>Lathyrus sativus</i> , Linn) through gamma Radiation and EMS	Ph.D	14/09/2010
19	Shri. Swapnil Jagtap	Dr. A.D.More	Botany	Induction of Genetic variation in <i>Lablab purpureus</i> (L). Sweet (Dolichos bean) through Gamma radiation and EMS.	Ph.D	10/01/2011
20	Ms. Afsana Tamboli	Dr. Ms. V.S.Korad	Zoology	Study on the feeding diversity of dung beetles (Coleoptera) Scarabaeidae in relation to their ecological role in the Western Ghats of Pune District	Ph.D	28/12/2008
21	Ms. Nootan Yadav	Dr. Ms. V.S.Korad	Zoology	Study on embryonic profile of cholesterol and phospholipids and effect of lipid inhibitor on development using suitable animal model.	Ph.D	21/04/2011
22	Ms. Kanchan Mangale	Dr. Ms. V.S.Korad	Zoology	Endocrinology, Toxicology and reproductive physiology	Ph.D	In Process

Annexure –III

Students Achievements

Sr. No.	Department	Achievements
1	Computer Science	<ol style="list-style-type: none"> 1. Ms. Sanika Goregaonkar of S.Y.B.Sc(C.S.) won first prize in Light Music and second prize in classical Music in the National Level Musical competition organized by Akhil Bharatiya Sankrutik Sangh. 2. Ms. Sanika Goregaonkar of S.Y. B.Sc.(C.S.) won the first prize in state level musical competition “Swar Madhuri” organized by Modern College, Pune. She has also won first prize in musical competition “ELIT Karandak “ organized by LION’s Club of Pune. 3. Ms. Shraddha Bhat of F.Y.B.Sc.(C.S) have secured Shiv Chhatrapati Award in Taekwondo. This award is given by Government of Maharashtra for excelling in sports. 4. Mr. Varun Gujar of T.Y. B.Sc(C.S) was selected as a member of Pune University Badminton(Men) team which was qualified in the All India Inter University Championship from West (Jabalpur) Zone. 5. Ms. Kanchan Meghnani of T.Y.B.Sc(C.S) secured second prize in seminar competition held at Poona College, Pune. 6. Mr. Abhishek Jain, Mr. Akshat Jain of T.Y. B.Sc(C.S) secured third rank in computer project competition ‘ELECOMP-2011 ‘ held at Symbiosis college of Arts and Commerce college, Pune. 7. Ms. Deepti Ranpara of T.Y.B.Sc(C.S.) participated in Late Shri Shankarrao Wakalkar Debate competition held at Indira College of Commerce & Science, Pune. 8. Mr. Abhishek Jain, Mr. Akshat Jain , Ms. Deepti Ranpara of T.Y. B.Sc(C.S) secured second prize in project competition held at Prof. Ramkrishna More Arts, Commerce & Science college, Pune. 9. Mr. Abhishek Jain, Mr. Akshat Jain , Ms. Deepti Ranpara of T.Y. B.Sc(C.S) participated in zonal level research project competition ‘AVISHKAR – 2010’ held at Fergusson College which was organized by University of Pune. 10. Mr. Amol Shinde of S.Y. B.Sc(C.S) has secured first prize in debate competition organized by Department of Computer Science, Fergusson College. 11. Mr. Amol Shinde of S.Y. B.Sc(C.S) has secured Best Speaker award in ‘WallStreet 2011’ organized by Economics Department of Fergusson College. 12. Ms. Deepti Ranpara, Mr. Abhishek Jain, Mr. Akshat Jain of T.Y.B.Sc(C.S.) has secured second prize in intercollegiate event ‘Call for Papers’ in Technical festival ‘Bits and Bytes’ organized by Department of

		<p>Computer Science, Fergusson College, Pune.</p> <p>13. M.Sc.(Computer Science) students presented their ideas in Cloud Computing Group (peepal) and the following groups got selected:</p> <p>i) Amol Dixit, Shekhar Singhal – College Notification.</p> <p>ii) Smruti palve, Meenal Jain, Ramya Pillai , Neeraj Sharma, Bhushan Amrutkar – Hybrid Cloud Controller.</p> <p>14. M.Sc.(Computer Science) students presented their paper in “Avishkar” Technical event</p> <p>i) Vaibhav , Hemant , Jivan</p> <p>ii) Hemani, Sneha</p> <p>iii) Minal, Nabanita</p> <p>15. 7 innovative ideas (presentations) of students were selected by company PC - Vita under the event “Innovative Idea Of The Year (Idea Camp)”.</p>
2	English	<p>1. Two students from S.Y.B.A., Tanvi Damle & Yash Daiv, won the 1st & the 2nd prize in an intercollegiate paper presentation contest organized by Mahila Mahavidyalaya, Nasik.</p>
3	Mathematics	<p>2. Mr. Rakesh Pawar joined IIT, Powai, Mumbai for M. Sc. Program. He got National Board for Higher Mathematics scholarship for M. Sc. Students.</p> <p>3. Mr. Tridibesh Dey, S. Y. B. Sc. got certificate of appreciation in Madhava Mathematics competition. He will participate in one week Summer workshop at Bhaskaracharya Pratishthana, Pune in May 2011. Mr. Sudarshan Shinde , S. Y. B. Sc. and Ms. Ms. Indraja Rajendra Jakhalekar , FYBSc have been selected to participate in Mathematics Training and Talent search, 2011 to be held at Mumbai in May-June 2011 in Level I and level 0 respectively.. Mr. Tridibesh Dey will work with Prof. Rajendra Bhatiya under Indian National Science Academic fellowship for two months at Indian Statistical Institute, New Delhi.</p>
4	Political Science	<p>1. Mrunmai Shashank Joshi was awarded the Dr. Usha Mahajani Prize for topping the TYBA Political Science list in (2009-10) with 487 marks out of 600.</p> <p>2. Kirti Bharat Mhaske was awarded the Late Kum Tilottama Krishnarao Desai Prize for topping the TYBA Political Science list in (2009-10) with 487 marks out of 600.</p> <p>3. Sachin Navanath Sanap, a past student of the Department passed the SET examination held on 8th August 2010.</p> <p>4. Dayanand Daji Habu (TYBA Political Science Special) won a Silver Medal in the 10 km category of the Uninor Silver Jubilee Pune International Marathon held at Pune on 5th December 2010.</p>

		<ol style="list-style-type: none"> 5. Kirti Bharat Mhaske was selected as PSI through the MPSC examination on 18th Feb, 2011 6. Mahesh Basapure (SYBA Political Science Special) made an audio-visual documentary film on the Narmada Bachao Aandolan.
5	Psychology	<ol style="list-style-type: none"> 1. Ms. Meghna Kulkarni of T.Y.B.A. stood first at the University Examination for the year 2010. 2. Ms. Surabhi Date of S.Y.B.A. represented India as a captain of Indian Women Rugby Team at the Commonwealth Games, Beijing. 3. Ms. Parna Pethe, Gauri Kaulgud, MEDha Shidore and Sayali Shaastrabudhe represented Fergusson College for Firodiya Karandak and won 2nd Prize for 2011 (Intercollegiate Performing Arts Competition). 4.
5	Geography	<p>The following students were awarded the Filchner Prize for being topper in Geography in SYBA</p> <ol style="list-style-type: none"> i) Ms. Shivani B Bankar (TYBA) ii) Mr. Bhaware Avishkar V. (TYBA) <p>b) Mr. Akash Srinivas (SYBA) was selected as a member of the archeological expedition to Chandrapur in eastern Maharashtra. The expedition was organized by the Deccan College, Pune .</p>
6	German	<ol style="list-style-type: none"> 1. Ms. Sneha Mahajan and Ms. Ketki Karandikar (SYBA). Both of them from SYBA were selected for the Erasmus Mundus scholarship for 2. Undergraduates (2010-11). They have got an opportunity to study at University of Berlin for two semesters i.e. (Aug 2010- June 2011). 3. F.Y.B.A. Students won the first Prize in the German skit competition organized by Dept. of German (University of Pune) under Januar Fest. (Jan 2011). They presented a small German skit "Das Geschenk" (The Gift) which was written by one of the SYBA student.
	Sociology	<p>Nidhin Shobhana of SYBA won the first prize for his essay "Women in the informal sector: marginalization and empowerment" in the national level annual paper presentation competition entitled National Young Sociologist Competition 2010 -2011 organized by the department of sociology, Christ University, Bangalore.</p>
7	Microbiology	<p>Following M.Sc. student participated and presented a poster in "AVISHKAR-2010-11" –</p> <ol style="list-style-type: none"> 1. Miss. Suraj Ahire and Miss. Sauvita Pawar- Screening of endophytic microorganisms from leaves of <i>Curcuma longa</i> and their antimicrobial activity. 2. Miss. Juhi Shah and Dhanashree Nevagi – A novel ecofriendly method to remove phenol from industrial effluent. 3. Miss. Prajakta P. Bhagwat and Miss. Priya Bendre - Reduction of heavy metals from domestic sewage by

		<p>using microorganisms.</p> <p>4. Mr. Soumyajyoti Das and Sahil Bhatnagar- Isolation, identification and characterization of plant growth promoting Rhizobacteria from soil.</p> <p>5. Hamid Ali- Antimicrobial activity of honey.</p> <p>Student from F.Y.B.Sc. participated in various activity as follows-</p> <p>1. Mr. Anwit Pandit F.Y.B.Sc.- Bronze medal in National Water Polo competition.</p> <p>2. Miss. Tripti Nair, Mr. Anwit Pandit and Mr. Suyash Dhoot, F.Y. B.Sc. students selected for PICC research project.</p>
8	Psychology	<ol style="list-style-type: none"> Meghana Kulkarni of TYBA stood first at the University Examination, 2010. Surabhi Date of SYBA represented India as a captain of Indian women Rugby Team at the Common wealth Games at Beijing. Parna Pethe , Gauri Kaulgud, Medha Shidore and Sayali Sahastrabuddhe were the part of the drama troupe that represented Fergusson College and successfully won 2nd prize in Firodiya Karandak 2011(Intercollegiate performing Arts competition). Parna, Medha and Sayali also won prizes at the individual level. Darshana Kulkarni acted in a commercial Marathi film -Lak Mazi Navasachi Neha Bhawsar presented a paper on “Age difference among managers on Type A behavior pattern, anger and perceived stress” at the 3rd National Research Conference on “Managing diversity for inclusiveness: The corporate Initiatives” held at the Sinhgad Institute of Management and Computer Application, Pune from 20th to 22nd January 2011. The Paper was recognized as the Best paper. Susmeeta Katarki presented a research paper presented and was published in the proceedings of National Seminar on Individual and collective transformation: insights from Indian psychology (Delhi University, 2011). The Title of the paper was, “A Comparative study of Sattwic, Rajasic and Tamasic Diet in Relation to Mental Health and Anger”. The paper was ranked third in the best paper competition. Shruti Lahoti presented a paper on Emotional Intelligence and Adjustment among Adolescents and Young Adults. The paper was awarded second prize in Avishkar, a research project competition held at state level by University of Pune in 2011.
9	Gymkhana	<ol style="list-style-type: none"> Ms. Deepika Joseph: -India National Kabaddi team member. Fifth Asian Kabaddi Championship Gold medallist held in China in Nov-2010. Ms. Sayali Bhilare: - Tennis, Sr. women national championship. Played International tournament in Italy, Spain.

		<ol style="list-style-type: none"> 3. Ms. Surabhi Date: - Rugby Indian team member held at Chin, Malaysia. 4. Miss Shruti Kotwal: - Ice Skating. Played South Asian competition and won three Gold Medals. 5. Ms. Deepa Sudame: - Swimming All India 200 Mtrs Breast Stroke, 4 X 100 Mtrs Freestyle Relay -Bronze Medal, 100 Mtrs Breast Stroke, 4 X 100 Mtrs Medley Relay- Silver Medal. 6. Ms. Shruti Kadam: - Swimming All India 4 X 100 Mtrs Freestyle Relay -Bronze Medal, 4 X 100 Mtrs Medley Relay- Silver Medal. 7. Riddhi Mahashabde:- Rope Mallakhamb. All India Team Gold Medal in Patiala, October, 10. 8. Mr. Apoorv Gaikwad: - Kho-Kho Junior National Gold medal.
10	Physics	<ol style="list-style-type: none"> 1. Prabhat Jha, M.Sc. II, completed his summer fellowship at the S.N. Bose Institute, Kolkata under IAS summer fellowship program. He has also been selected to work in Mecademia Educational Institute, Dubai after completion of his MSc course. 2. Sargam Mulay, M.Sc. I and Sanket Sen T.Y.B.Sc. completed a Radio Astronomy Winter school at NCRA, in Dec 2010. 3. Sanket Sen and Suraj Dhiwar T.Y.B.Sc.: <ul style="list-style-type: none"> * Presented two separate papers at the National Seminar on Developing Frontiers in Physics, Astronomy and Space sciences at Akola for which Sanket Sen won the Second Prize for best presentation, Sept. 2010. * They also presented two separate papers at the National Seminar on Recent trends in Physics at Junjwala college, Nerul, Mumbai. 4. Prachi Telang and Shreyya Krishnamurthi, T.Y.B.Sc.: <ul style="list-style-type: none"> * Completed a Refresher course in Experimental physics at Indian Institute of Science, Bangalore. * They both also won the first prize for their paper at the Raman Memorial Conference at the dept. of Physics, University of Pune. 5. Rucha Deshpande, T.Y.B.Sc. completed her PICC project and received a consolation prize under Physics poster category.

11	Zoology	<ol style="list-style-type: none"> 1. Ms. Parul Sharma and Ms. Anjali Vyas, T.Y.B.Sc. Zoology, were awarded First Prize (UG) in Agriculture and Animal Husbandry Category at Avishkar- 2010, State Level Research Festival organized by University of Pune, Pune. 2. Ms. Sheetal Mahajan, Ex-student of Zoology was awarded “Padmashri” for her contribution in sports. 3. Ms. Rashmi Zagade, Ex-student of Zoology, passed IAS Exam (Mains) in August 2010.
12	Botany	<ol style="list-style-type: none"> 1. Mr. Gopal Deore (Ph. D. Student –Botany)-First prize (Research category, Basic Sciences) in 3rd National Research Convention (Anveshan-2010) held at Panjab University, Chandigarh by Association of Indian Universities, New Delhi. (Date: 11th August to 13th August 2010). 2. Mr. Gopal Deore (Ph. D. Student –Botany -Second Prize (Research category, Basic Sciences) in 3rd Research Convention (West Zone) Anveshan- 2010 held at M.S. University, Vadodara, Gujarat by Association of Indian Universities, New Delhi. (Date: 22nd June to 24th June 2010). 3. Mr. Gopal Deore (Ph. D. Student –Botany -Second Prize (PPG category, Agriculture and Animal Husbandry) in 5th Inter-University Research Festival “Avishkar-2010” held at Maharashtra University of Health Sciences, Nasik, Maharashtra. (20th January to 23rd January 2011). 4. Mr. Yogesh Anna Dushing (Ph. D. Student –Botany)-First Prize (PPG category, Agriculture and Animal Husbandry) in 5th University Level Research Festival “Avishkar-2010” held at University of Pune.

Annexure-IV
Research grants received from various agencies (2010-2011)

Ongoing Research projects

Sr. No.	Department	Name of Teacher	Title of Project	Status	Duration	Funding Agency	Amount (Rs.)
1	Botany	Dr. Ms. Rupali Seth	Assessment of genotypic variation for salinity tolerance to some commonly cultivated tomato in Maharashtra.	Minor	2010-2012	UGC	1,80,000
2	Botany	Dr. Shankar L. Laware	Preparation of value added organic liquid fertilizer for organic vegetable production	Minor	2009-2011	UoP	1,70,000/-
3	Botany	Dr.(Mrs).Jogita.T.Pandkar	Aerophycological studies of Pune environment.	Minor	2009 – 2011	UoP	50,000/-
4	Chemistry	Dr. Ms. Parbati Bandopadhyay	Design and Synthesis of some biologically important thiosemicarbazones and study their coordination behavior towards transition metals.	Minor	2011-2012	UoP	1,50,000
5	Chemistry	Shri. Anil G. Markandeya	Phytochemical Analysis of <i>Celocia argentea</i>	Minor	2011-2013	UGC	1,05,000/-
6	English	Dr. Madhuri Gokhale	'Integrating the theory of Multiple Intelligences in a Poetry Classroom'.	Minor		UoP	1,00,000/-
7	Geology	Dr.Shyam .N.Mude	Palaeoological, Palchnological, Sedimentological and Neomorphic investigations from the Paleogene-Neogene Sediments of the Narmada block of the Cambay Basin, Gujarat, India.	Major	2009-2012	UGC	20,15,000/-
8	Geology	Dr.Shyam.N.Mude	Micropaleaontological and Palichnological investigations of Penganaga sediments along Adilabad-Chandrapur Sector, India.	Minor	2009-2011	UGC	1,50,000/-
10	Physics	Dr. Sunil .G.Kulkarni	Development of Humidity fencing material using soft ferrites.	Minor	2011-2012	UoP	1,50,000/-
11	Physics	Dr.Ms.R.V.Dabhade	"Implementation of HAM Radio for Meteor shower observation"	Minor	2009- 2011	UoP	2,50.000/-

12	Physics	Dr.K.M.Sonawane	"Synthesis and Characterization of Transparent conducting Oxide(TCO) thin films for Gas Sensing Applications"	Minor	2009- 2011	UoP	2,50,000/
13	Physics	Mr. A.P. Yengantiwar	Deposition & characterization of hydrophobic & hydrophilic thin films.	Minor	2009-10 and 2010-11	UoP	2,50,000/
14	Physics	Mr. H.M. Gholap	Organometallic synthesis of semiconductor nanoparticles.	Minor	2009-10 and 2010-11	UoP	2,50,000/
15	Physics	Mr.K. B. Sapnar	Synthesis and Characterisation of TiO ₂ and ZnO nanoparticles and study of 6MeV electron irradiation	Minor	2010- 2012	UoP	3,00,000/-
16	Physics	Mr. N.T. Mandlik	Nanophosphors for 6MeV electron dosimetry.	Minor	2010- 2012	UoP	3,00,000/-
17	Psychology	Dr. Ms. Shobhana C. Abhyankar	Quality of work related life and health: A psychological perspective.	Minor	2010-2012	UGC	1,00,000/-
18	Sanskrit	Dr. Prasad P.Joshi	Linguistic Dictionary of Sanskrit prepositions	Minor	2011-2012	UoP	41,000/-
19	Zoology	Dr. Sameer .S.Terdalkar	Isolation and Identification of microorganisms from mangrove species of <i>Rhizophora mucronata</i> from Bhatye Estuary, Ratnagiri, Maharashtra.	Minor	2011-2013	UGC	1,88,000/-
20	Zoology	Dr. Ms. Anukriti N. Nigam	Study of Limnological Parameters of Khadakwasala Reservoir as a Conservation Site for threatened fish Mahaseer.	Minor	2011-2013	UGC	1,00,000/-

UGC- University Grants Commission

UoP- University of Pune

Completed Research Projects

Sr. No.	Department	Name of Teacher	Title of Project	Status	Duration	Funding Agency	Amount (Rs.)
1	Botany	Dr. Shinde B P	Study of AM fungi as Biocontrol agents for rhizome rot of with Ginger (<i>Zingiber officinale</i> Rosc.)	Minor	2008-2010	UoP	300,000/-
2	Botany	Dr. Minakshi Mahajan	Extramural study of aeromycoflora over a Jowar crop field near Pune	Minor	2008-2010	UoP	2,00000/-
3	Botany	Dr. Minakshi Mahajan	Study of Microbial population in the ambient air of poultry shed	Minor	2008-2010	UoP	2,00000/-
4	Chemistry	Dr. R. S. Konde Deshmukh	Synthesis of substituted N-phenylanthranilic acids and its derivations anticipating that derivatives have enhanced biological activity	Minor	2009-10	UGC	130000
5	Chemistry	Dr. R. S. Konde Deshmukh	Synthesis of β -Asarone and its derivatives	Minor	2009-10	UoP	150000
6	Chemistry	Mr. N. P. Firke	Synthesis of 1-2,O-isopropylid ine-3, amino methyl -5,6-O isopropylidine-D-Gluco furanose and its derivative as chiral auxillary for asymmetric synthesis	Minor	2008-2010	UGC	60,000
7	Chemistry	Mrs. Meenkshi Suresh	Isolation and Biochemical characterization of Industrial enzymes from soil bacteria	Minor	2008-2010	UGC	65,000
8	Chemistry	Mrs. Ujwala Patil	Theoretical investigation of different interaction in tetra-thio-molybdate complexes	Minor	2008-2010	UGC	70,000
9	Chemistry	Mrs. Ujwala Patil	Molecular electrostatic potential and molecular electron density of nitrodamanten	Minor	2008-2010	UoP	2,00000
10	Chemistry	Mr. A.G.	Assessment of physic-chemical	Minor	2008-2010	UoP	2,00000

		Markandeya	containment in ground water around Mutha river from Khadakwasala to Sangam Bridge,Pune				
11	Electronic Science	Dr. (Mrs.) Sangita. N. Kale	To Synthesize self-assembled oriented nano-magnetic particles in thin film form and study its property regime.	Major	2007-2010	UoP	3,51,000
12	Electronic Science	Dr. Nitin . M. Kulkarni, and Dr. M. S. Zambare	Study of AC power line characteristics for power line communication	Minor	2008 -2010	UoP	2,00,000
13	Electronic Science	Dr. M. S. Zambare	Energy optimization and power scheduling in low power sensor network	Minor	2008 - 2010	UoP	2,00,000
14	Electronic Science	Prof. V. P. Labade, Mr. P.J. Kolte and Mr. A.M. Bhosale	Development of an embedded automatic sequence musical tone generator for MNQ testing	Minor	2008 - 2010	UoP	1,00,000
15	Geology	Dr. P.K.Sarkar and Dr. Shyam N. Mude	Provenance Study of the clastic and non-clastic sedimentary sequence of the Jaisalmer Basin, Western Rajasthan.	Minor	2009-2011	UGC	1,75,000/-
16	Marathi	Shri. Anand Katikar	Bhasha Ani Jeevan Ya Niyatlaikacha Abhyas 1983--1992	Minor	2008-2010	UGC	80,0000
17	Physics	Dr. Mrs. A.S. Ogale	Hydrothermal synthesis of metal oxide nanostructures	Minor	2008-09 and 2009-10	UoP	3,00,000/-
18	Physics	Dr.Ms.R. V. Dabhade	"Photographic observations of Meteor showers"	Major	2008-2010	ISRO, and UoP	5,00,000/-
19	Zoology	Dr. K.D.Pendharkar	Survey of Cestode parasites of sheep and goat from Pune district.	Minor	2008-2010	UGC	50,000/-
20	Zoology	Dr. Ms. V.S.Korad	Phylogeny of Horseshoe and Leaf-nosed bats from Pune District inferred from morphometrics and mitochondrial DNA sequences.	Minor	2007-2009 completed in August 2010.	UoP	3,00,000/-,

