

**GOA UNIVERSITY
INTERNAL QUALITY ASSURANCE CELL**

Annual Quality Assurance Report (AQAR)

Academic year: 2009-10

Part A

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

1. The IQAC was reconstituted in July 2009 with a view to evolve a plan of action for initiation of quality assessment activities at the University, especially in the context of the Peer Review report of NAAC.
2. The IQAC identified the need to initiate an awareness program for the teaching and non-teaching staff of the University that would introduce the concept of quality in education and the various levers of quality in the domain of education. This was planned through an agency which had the expertise in the field of assessment of quality parameters in education.
3. The IQAC identified the need to enhance systems and processes in the administrative setup of the University and held discussions with University officers on the need to map processes and reduce response time.
4. Student feedback was identified as one of the focus areas. The IQAC accordingly discussed revision of the existing student feedback form.

PART B

1. Activities reflecting the goals and objectives of the Department

Faculty of Social Sciences	
Department of Economics	The faculty of the Department are actively engaged in extension and dissemination apart from routine Teaching & Research.
Centre for Women's Studies	The Centre hopes to develop the teaching programme of the Centre as well as to build a Department of Women's Studies at the Goa University.
Faculty of Natural Sciences	
Department of Chemistry	Teaching & Research
Department of Computer Science & Tech.	Teaching, Research and campus placement

Department of Earth Science	Department has been actively involved in imparting quality education and training to the students to make them ready for undertaking responsible positions in their career. Further, department has been actively involved in research and consultancy activities for strengthening departmental infrastructure in collaboration with industry and government agencies. The department was funded for DRS-II program under UGC-SAP. (from 2008-13)
Faculty of Life Sciences & Environment	
Department of Microbiology	Human Resource Development in Microbiology through Teaching/Research: Lectures, practicals, students seminar, dissertation, tutorial, assignment, Ph.D. research, funded projects
Department of Zoology	National Seminar – “ZOOLOGY, LIFE PROCESSES AND NANOTECHNOLOGY” was organized during 8 th - 10 th Feb 2010. Organized field trips /educational tour in Rajasthan
Faculty of Management Studies	
Department of Management Studies	1. Implementation of New MBA Ordinance 2. Submission of a Minor Research Project in Tourism Sector 3. Campus Placement Interviews. 4. Workshops on promoting entrepreneurship in the society.
Faculty of Commerce	
Department of Commerce	The Thrust area of the department are Accounting and Finance, Financial Services, Capital market Studies, Entrepreneurship Studies, Tourism and Hotel Management Studies.

2. New academic programmes initiated (UG and PG)

Faculty of Languages & Literature	
Department of English	The Department has introduced a new Elective Paper titled ‘Regional Sensibilities in Indian Writing’ to make the students familiar with Regional Literatures in India
Department of Hindi	Basic computer knowledge is introduced
Faculty of Social Sciences	
Department of Economics	A Dissertation component has been added as a possible option in lieu of electives.
Department of Sociology	Sociology of Work Globalisation and the New Media Migration and Society in Goa
Department of Philosophy	“Philosophy of Wellness” and “Philosophical Paradoxes”
Department of Political Science	Maritime Security in Indian Ocean 2008 Conflict and Cooperation in International Relations 2008 Human Resource Development 2008 Political Reporting and Analysis 2008 Democratic Politics in India 2010
Centre for Women’s Studies	Two Women’s Studies Courses WS01: Women’s Movements: Concepts, Struggles and Transitions and WS 02: Gender Issues in Goa were processed.

Faculty of Natural Sciences	
Department of Chemistry	Floated practical modules in Physical Chemistry for M.Sc. part in lieu of practical course/theory course/project.
Department of Electronics	Department introduced credit based system with 40% compulsory courses. Following new courses were started: EDA TOOLS-I
Faculty of Life Sciences & Environment	
Department of Botany	M. Sc. Course was revamped to introduce credit based programme. Many courses were revised and a few new elective as well as core papers introduced
Department of Microbiology	Five Year Integrated M. Sc in Ocean Science and Technology and Proposal of M. Sc Marine Microbiology
Faculty of Management Studies	
Department of Management Studies	New Elective introduced was – Mergers and Acquisitions for 2009-11 batch

3. Innovations in curricular design and transaction

Faculty of Languages & Literature	
Department of English	Students were encouraged to do field work in Cultural Studies in Goan context.
Department of Hindi	Some new topics and text introduced.
Department of Marathi	Inclusion of audio visual aids. Field trip at Mysore, Shrawanbelgolla (Karnatak)
Faculty of Social Sciences	
Department of Economics	In the last academic year the focus was on shifting to a Credit Based system. This involved re-organisation and revision of all courses. A Dissertation/Project component has been added as a possible option in lieu of electives.
Department of Sociology	More student centred approach. More emphasis on relating theory to empirical situation of students
Department of History	The entire curriculum of the Master's Programme in History was re-designed within the parameters of the choice-based credit system of Goa University to be introduced w.e.f. the academic year, 2010-2011.
Department of Political Science	Focus on making the courses more contemporary by selecting specific case studies relevant to the course.
Faculty of Natural Sciences	
Department of Chemistry	The revision of first year curriculum in line with the requirement to introduce credit based system from the academic year 2010-11 was undertaken with enrichment of subject content and design of new theory and laboratory courses.
Department of Mathematics	New elective courses were added

Department of Computer Science	Activity based learning
Department of Electronics	<ul style="list-style-type: none"> The curriculum was designed for hands-on experience and to strengthen practical oriented knowledge. The course 'EDA TOOLS-I' implemented successfully with 'p-Spice' and 'Microwind' software.
Department of Earth Science	As part of the ongoing curricular changes and on the lines of UGC guidelines, department has introduced the Choice Based Credit System with a revised syllabus.
Faculty of Life Sciences & Environment	
Department of Botany	Presentation of seminar by the students in each core papers (published research work) which was assessed for quality of paper presented, quality of presentation and understanding of the subject by the whole faculty of the Department.
Department of Microbiology	Interdisciplinary courses offered to Life Science departments and students encouraged to take optional courses with other Life Science departments
Department of Biotechnology	Inclusion of assignments, group discussions, seminars on related topics of syllabus & course material introduced on-line.
Faculty of Management	
Department of Management	Specific Industry inputs for curriculum design were incorporated through a joint workshop at the Department of Management Studies. Software like TALLY was included in the curriculum in Finance. Students involved in designing session plans for electives like training and development, benchmarking against the best of Management institutes.

4 Inter-disciplinary programmes started

Faculty of Languages & Literature	
Department of English	The Department is involved in teaching courses related to Cultural Studies which is of an interdisciplinary nature.
Faculty of Social Sciences	
Department of Philosophy	"Philosophy of Wellness" and "Philosophical Paradoxes"
Department of History	Most of the courses run in the Department are interdisciplinary in content and approach.
Faculty of Natural Sciences	
Department of Chemistry	The department curriculum has provision for the students in the branch say organic to attend elective courses of another branch like Inorganic or Physical chemistry and vice versa.
Department of Electronics	ADVANCED DIGITAL COMMUNICATION SYSTEMS MICROPROCESSORS ARCHITECTURES AND PROGRAMMING
Faculty of Life Sciences & Environment	
Department of Botany	Remote sensing, Photosynthesis and Productivity, Medicinal Plants Plant Animal interaction, Plant Tissue culture

Department of Microbiology	Food Microbiology, Biostatistics
Department of Zoology	Commenced Evolutionary Biology Course for M.Sc. Students.
5. Examination reforms implemented	
Faculty of Languages & Literature	
Department of English	The Department preferred the conventional methods of evaluation.
Department of Hindi	Planned 5 test, such as class seminar, assignment and three written tests which will be covered short, long answers and multiple choice.
Faculty of Social Sciences	
Department of Sociology	The Department is moving towards a gradual decline in the closed book tests and examinations
Department of History	The Intra-Semester assessment in some courses, such as HSC 01 (Historical Method) and HS0 12 (Portuguese Colonialism: A History), was designed to include components such as book review and an objective test on definitions and map-work. The students had to make power-point presentations for the seminars which were considered for the purpose of evaluation
Faculty of Natural Sciences	
Department of Chemistry	Examinations /evaluations were done as per the University rules. 50 % external evaluation for compulsory courses and 100 evaluation for optional courses
Department of Electronics	Continuous evaluations methods (5 internal test) Group test encouraged Total internal evaluation
Department of Earth Science	100% internal evaluation (as part of the CBCS)
Faculty of Life Sciences & Environment	
Department of Botany	Done as per the guidelines of the Goa University (50% ISA, evaluated internally, which include written test, assignment and seminars) and 50% SEA, evaluated externally)
Faculty of Management	
Department of Management Studies	Department has been using student centric evaluation methods such as Open book examinations and multiple criteria for evaluation including class participation, quiz, case analysis etc.

6. Candidates qualified: NET/SLET/GATE etc. (give number)

Faculty of Life Sciences & Environment	
Department of Botany	1 GATE 1 NET (lectureship)
Department of Biotechnology	12 students cleared the GATE 2009 exam 6 students cleared the CSIR/UGC/NET Lectureship exams

Faculty of Social Sciences	
Department of Sociology	One
Department of Political Science	One
Faculty of Natural Sciences	
Department of Chemistry	Seven students cleared UGC-CSIR NET/GATE exams
Department of Electronics	One (SET & NET)
Department of Earth Science	Two students qualified (one each for NET and GATE)

7. Initiative towards faculty development programme

Faculty of Languages & Literature	
Department of English	Dr. Nina Caldeira was awarded a 10 weeks Fellowship to Australia for her project 'Multimedia Readings of Multicultural Nationhood: Australia'.
Department of Hindi	Translation workshop/ seminars/ symposium (lectures) visiting Lectures faculty members were participated during the last year refresher course organized by Dept. of Hindi.
Marathi	Teachers from the Department of Marathi attended Seminars, Lectures and conferences.
Faculty of Social Sciences	
Department of Economics	One teacher attended an international training workshop in World Economy modelling organised by Alphametrics and Cambridge Economics Research Foundation in May 2010 in Thailand.
Department of Political Science	Refresher Course in Political Science at Himachal University during Nov-December 2009.
Faculty of Natural Sciences	
Department of Chemistry	Most of the teachers in the department have completed their requirements of refresher/ orientation courses. The younger faculty members will be attending such courses as and when available.
Department of Mathematics	A Faculty is registered for Ph.D program
Electronics	Refresher course in Electronics Science
Faculty of Life Sciences	
Department of Botany	Dr. BFR "International Training on <i>in vitro</i> culture of AMF", held in Department de chimie appliqué et des bio-industries Unite de microbiologie, Universite Catholique de Louvain (UCL), Louvain-la-Neuve (19.04.2009 - 24.04.2009). All colleagues attended and presented research papers in various conferences in India.
Department of Microbiology	Faculty participate in National and International conferences, workshops and seminars.

Department of Biotechnology	Dr. S. Kerkar was a member of Indian team which visited Arctic in June 2007.
Faculty of Management	
Department of Management	Dr. Purva Hegde Desai attended Continuous professional Education Programs organised by the Institute of Chartered Accountants of India, Goa Branch like program of IFRS Mr. Nilesh Borde attended a workshop on Project Management with Princeton Academy, Mumbai.

8. Total number of seminars/workshops conducted

Faculty of Languages & Literature	
Department of English	The Department organized a National Seminar in collaboration with Sahitya Akademi on the theme, 'Fantasy in Literature' in March 2010. The Department also collaborated with the Indian Association for the Study of Australia in organizing the Fifth International Conference on Australian Studies in January 2010.
Department of Hindi	National Seminar on the topic "Samkaleen Hindi Natya Vimarsh". National seminar on the topic "BHARTIYA SAHITYA KA SANSKRUTIC PARIDRUSHYA" Hindi Teachers workshop conducted to discuss U.G. and P.G. syllabi On the occasion of Hindi day "A stair and hummers Poets meet" was organized.
Department of Marathi	Seminar on "The literary contribution of B.S. Mardhekar to the Marathi Literature: A Critical Review" was conducted. Seminar on "Nature and Development of Poetic Writing in India: A post 1990 National Scenario was held.
Faculty of Social Sciences	
Department of Economics	National Seminar: "Growth, Inequality and Economic Reforms in India," sponsored by ICSSR and GU. February, 2010.
Department of Political Science	Dayanand Bandodkar and his Ideas: Relevance for Contemporary Goa , National Conference in collaboration with Indian Institute of Advance Study, Simla, March, 2010
C.W.S.	State Level Workshop ' <i>Towards Gender Budgeting</i> ' for Government Departments, June 2009 Two day ICSSR (Western Regional Centre) workshop for Post graduate and Under Graduate teachers in Goa on the " <i>Teaching Gender: Contemporary Debates.</i> "
Faculty of Natural Sciences	
Department of Chemistry	1. The 4 th annual intercollegiate T.Y.B.Sc. Chemistry symposium held, February 2010. 2. Seminar on "Emerging Fields in Chemical Sciences: Pharmaceutical/Diagnostic/Drug delivery", February 2010.
Department of Earth Science	Two
Department of Electronics	Goa University Refresher Course in Electronics, March-April 2009. "VLSI AND EMBEDDED SYSTEM SYMPOSIUM" February 2010.

Faculty of Life Sciences	
Department of Botany	National Workshop on “Techniques in Arbuscular Mycorrhizal (AM) fungal Research” during 25-27 February, 2009 under the UGC-SAP Programme in the Botany Department.
Department of Microbiology	(i) Organized Poster competition on “Theme Microbes in Advancement of Biotechnology” as a part of National Science Week Celebration 2010 February 25, 2010 (ii) Workshop on “ Review of the New B.Sc. Syllabus and its implementation” for the teachers of Undergraduate Microbiology course in Goa March 05, 2010
Department of Zoology	ONE National Seminar
Faculty of Management	
Department of Management Studies	Workshop on students centred Pedagogy on June 29 th 2009 for BBA teachers. National Case Writing and Analysis Workshop July-October, 2009. Workshop cum Training Program for BBA teachers. Workshop on co-creating courses, March 2010

9. Research projects a) Ongoing; b) Completed

Faculty of Languages & Literature	
Department of English	-Dr. K. Budkuley- Publication Grants of Rs. 30,000/- for book “ <i>Mapping the Mosaic of Culture –Essays in Language & Literature</i> ” --Dr. K. Budkuley-Publication grant of Rs. 30,000/- for book “ <i>Shatakantika</i> ”.
Department of Hindi	Antim Dashak ki Hindi Kavita : Samvedhana evam Shilp PI - Prof. R.N.Mishra Rs. 85,000/-
Faculty of Social Sciences	
Department of Economics	Consultancy from IUCN, Nepal. Rs 60,000. UGC Major Project Rs 4,29,200
Department of Sociology	A Study of Goan Diaspora A Research Project sponsored by the University from the 11 th Plan Grant to be completed during this financial year.
Department of Philosophy	‘Hermeneutics as Method’ as part of ‘Modes of Philosophical Reasoning’ project. Project on the ‘Metaphysical Synthesis of Major World Religions’.
C.W.S.	A UGC Major Project (Rs 4,49,280/-) that studied the links between tourism related development practice, nutritional entitlement of women and the consequent impact on their health.
Faculty of Natural Sciences	
Department of Chemistry	1. The development of solid state nuclear track detectors for charged particle dosimetry; Sanctioned by BARC, Mumbai (Rs. 13.68 lakhs) 2. Synthetic studies in bioactive marine natural products and their analogues (14.26 lakhs) 3. Nanostructured based catalysts (6.36 lakhs) 4. Domino Wittig Diels-Alder reactions (4.77 lakhs)

Department of Computer Science	<ol style="list-style-type: none"> 1. Dr. Venkatesh Kamat, PGDCET: ICT training for School Teachers, June 2008, 2 yrs. Govt. of Goa, 130.00 Lakhs. 2. Dr. Venkatesh Kamat, MODROB: Modernization and Removal of Obsolescence June, 2008, 2 yrs. AICTE, 8.00 Lakhs. 3. Dr. P.R. Rao, Design, Implementation & Extension of Data Mining Techniques for semi structured data & their applicability, 1st August, 2006 (3 years) AICTE, Rs. 7 lakhs. 4. Dr. Jyoti D. Pawar & Dr. P.R. Rao (CO-PI) Design & Implementation of S/W package for Efficient Data Mining in High Dimensional data sets using attribute (column) based storage Representation (D.M for H.D data sets) 27th August 2007, 2 years, AICTE, Rs. 5.7 Lakhs.
Department of Electronics	<p><i>Completed</i> DIGITAP; 19,50,000/-; INDIAN NAVY Innovative Program in Embedded System; 70,00,000/-; UGC</p> <p><i>New</i> Non-Invasive Glucometer; 22,00,000/- Design of hyperspectral smart sensors using soft-core processor and IP cores; 9,33,800/-</p>
Department of Earth Science	<p>Ongoing – 2</p> <ol style="list-style-type: none"> 1. DST Funded project for preparation of Field Guide on Kutch 2. DRS-II program under UGC-SAP
Faculty of Life Sciences & Environment	
Department of Botany	<ul style="list-style-type: none"> • ‘Regeneration of <i>Trema orientalis</i> and <i>Macaranga peltata</i> plants using <i>in vitro</i> culture techniques.’ (Rs. 6,22,380). • Study of Interaction between excitation energy (high light) oxidant stress and protective mechanism on photosynthesis and productivity in rice seedlings” DST, Rs. 16,80,000. • SAP-UGC Programme on Biodiversity and Bio prospecting, UGC, 2004-2009, Rs. 35,00,000/-.
Department of Microbiology	<p>DBT funded :</p> <ol style="list-style-type: none"> (1) Biochemical characterization of tributyltin chloride (TBTC) resistant bacteria from marine environment of Goa, India and isolation of genes encoding enzyme(s) for TBTC resistance (degradation) <p>MOES funded:</p> <ol style="list-style-type: none"> (2) Anoxygenic phototrophic bacterial primary productivity and studies on the endolithic bacterial communities of marine ecosystems (3) Centre of Excellence on nano technology, Goa University, under DST nano mission <p>SESA, Goa: Production of inoculum formulation containing <i>Pisolithus</i> sp. for inoculation of plant seedlings transplanted on mine’s rejects</p>
Department of Zoology	<p>a. New Projects</p> <p>Dr. R. Roy, Lipidomics of some fishes: control of inflammatory disease, Department of Biotechnology, 28.93 lakhs.</p>

	<p>Dr. I. K. Pai, Investigations in Zooplankton diversity, distribution pattern and documentation in the south west coast of India, UGC. Rs. 6, 90,800/-.</p> <p>Dr. Shanti Desai, Culture and characterization of mantle cells of <i>Phaphia malabarica</i>, DST, Rs. 18.5 Lakhs.</p> <p>b. Ongoing /completed</p> <p>Dr. P. V. Desai, Mass culture of hepatopancreatic tissue and other tissues of crab-<i>Scylla serrata</i> and isolation of bioactive compounds, DBT, Rs. 28,60,000/-.</p> <p>Dr. S. K. Shyama, Evaluation of the Genotoxic effects of ionizing radiation in somatic/ germinal cells of fishes, BRNS/DAE, Rs. 26,99,150/-</p> <p>Dr. R. Roy, Membrane lipid bilayer structure: A study with gill epithelial cells of Mud crab <i>Scylla serrata</i>, UGC, RS. 7,36,800/-.</p>
Department of Biotechnology	<p>Dr. S. Kerkar, "Screening of Microbial cultures isolated from hypersaline environments for bioactive compounds", CSIR, Rs. 18,12,000.</p> <p>Dr. Savita Kerkar, "Bioprospecting of hypersaline bacteria for the production of Anti-fungal compounds and enzyme inhibitors", CSIR, Rs. 18,30,000/-.</p>
Faculty of Management	
Department of Management	Complaint Redressal in Tourism Sector in Goa, Rs. 50,000/-

10. Patents generated, if any: No Faculty member applied for any patent in this year of report.

11. New collaborative research programmes

Faculty of Natural Sciences	
Department of Chemistry	<p>Some of our faculty members have collaborations with the following institutes:</p> <ol style="list-style-type: none"> 1. Bhabha Atomic Research Centre, Mumbai 2. Bulk and Nanomaterials Research Lab., Parola, Maharashtra. 3. Centre for Biomimetic systems, Department of Chemistry, Ewha Women's University, Seoul, Korea 4. National Institute of Oceanography, Goa
Faculty of Life Sciences & Environment	
Department of Botany	Pigment analysis from Antarctica/Arctic algal sp. NCAOR
Department of Microbiology	Part of dissertation and Ph.D. research work is carried out in collaboration with colleges, scientists from NIO and ICAR
Department of Zoology	Collaborative Research Jointly with BARC, Bombay, sponsored by Department of Atomic Energy, India

12. Research grants received from various agencies

Faculty of Social Sciences	<p>“Screening for efficient Arbuscular Mycorrhizal (AM) fungal bioinoculants in selected ornamental flowering plants of commercial importance”, DST, Rs. 9,50,000.</p> <p>Histochemical, Biochemical and Tissue Culture Studies of <i>Garcinia Indica</i> Choisy (Kokum), CSIR, 18.2L.</p> <p>Grain Quality Evaluation, Chalkiness Formation and Molecular Genetic Diversity of Rice Varieties of Goa, DST Goa, 5.5L.</p> <p>Creating wealth from mining waste: Towards ecofriendly and sustainable management of Goa’s Iron and Manganese ore dumps, Rs 15.12 lakhs.</p> <p>Behaviour of engineered nanoparticle on interaction with plants roots, their absorption, translocation, photosynthesis and molecular response under controlled conditions in hydroponics system”, DST, 25,00,000.</p> <p>UGC-SAP Phase II, Biodiversity and Plant Biotechnology Rs. 67,00,000/-</p>
Faculty of Natural Sciences	Rs: 4,29,200 , UGC Rs 60,000 from IUCN Nepal
Department of Electronics	UGC (Major Research project) ; 9,33,800/- UGC Innovative project(2007-2012);70,00,000/- ICMR(Major Research project); 22,00,000/- Indian Navy ; 27,00,000/-
Faculty of Life Sciences & Environment	
Department of Zoology	<i>DBT, DST, UGC, BRNS/DAE.</i>

13. Details of research scholars

Faculty of Languages & Literature	
English	01 new student for Ph D.
Faculty of Social Sciences	
Economics	02 new students joined for Ph D.
Faculty of Natural Sciences	
Chemistry	4 new students joined for Ph D of which three have CSIR JRF.
Mathematics	03 ongoing Ph D. scholars
Computer Science	Six research scholars
Electronics	03 new students joined for Ph D; one as UGC fellow
Earth Science	Two part time Research Scholars registered for Ph.D Degree (Mr. Manoj, M. C, JRF of NCAOR and Mr. Manoj Ibrampurkar, Lecturer from Dempe College)
Faculty of Life Sciences & Environment	
Microbiology	23 ongoing Ph D scholars
Zoology	Number of students registered for PhD: 1 Number of students awarded Ph.D.:

	Number of research fellows joined: 1
Faculty of Management	
Management	Ms. Aruna Mesquita – A study in the Pre-Consumption and Post Consumption emotions in the Health Care Services. Ms. Murial Cardoso – Role Stress among doctors.
Faculty of Commerce	
Commerce	16 research scholars

14. Citation index of faculty members and impact factor

Faculty of Languages & Literature	
English	Even though the faculty members have published several articles, citation index and impact factor data are not available.
Faculty of Social Sciences	
Economics	Dr. S.M. Noronha: One Book Dr. P. K. Sudarsan: One Article Dr. Pranab Mukhopadhyay (PNAS: Impact factor is 9.432; Eigenfactor is 1.681 (for 2009, Citation Index not available, Article Ref: PNAS Vol. 107, No. 14, E52)
Faculty of Natural Sciences	
Chemistry	Journal Name: Impact factor (number of papers published) Indian Journal of Chemistry B: 0.4 (1) Indian Journal of Chemical technology: 0.4 (1) Indian Journal of Chemistry A: 0.7 (3) Journal of Radioanalytical and Nuclear Chemistry: 0.7 (1) Journal of chemical sciences: 0.8 (1) Journal of Coordination chemistry: 0.825 (2) Radiation Physics and Chemistry: 0.9 (1) Nuclear Instruments & Methods in Physics Research: 1.1 (1) Radiation Measurements: 1.5 (1) Journal of Thermal Analysis and Calorimetry :1.65 (2) Catalysis letters: 1.9 (1) Polyhedron: 2.207 (3) Catalysis Communication: 2.7 (3) Marine Drugs Impact factor : 2.9 (1) Physical chemistry chemical physics:4.1 (1) Journal of Organic Chemistry: 4.22 (2) Inorganic chemistry: 4.7 (1) Applied catalysis B: 5.2 (1)
Computer Science	9, 1.733, 1.27, 1.724
Electronics	JAP;1.03 RSI; 1.60
Faculty of Life Sciences & Environment	
Microbiology	Varies from 0.9 to 2.6; total is 8.1
Zoology	P V Desai 1 publication 2.9 R Roy 1 0.3

	I K Pai	6	--
Biotechnology	a) Current Microbiology. 59:608-615. (Impact factor: 1.33) b) Journal of Molecular Modeling (In press). (Impact factor: 1.8).		

15. Honors/Awards to the faculty: National and International

Faculty of Languages & Literature	
Hindi	Prof. B.K.Sharma Rohitashv, Raj Bhasha Samman from Govt. of Orissa Prof. R.N.Mishra, Meera Smruti Sanman of Meera Smriti Sansthan, Chitaurgarch Rajasthan
Marathi	Research link Gold medal 2009-10 to Dr S M Tadkodkar
Faculty of Natural Sciences	
Electronics	Mr. Jivan Parab: First Prize for Paper presentation at “ VLSI AND EMBEDDED SYSTEM SYMPOSIUM” Dr. Rajendra S. Gad: Mentor Graphics Contest 2010 “2000 outstanding intellectuals of the 21st Century.
Faculty of Life Sciences & Environment	
Botany	Prof. B. F. Rodrigues- Best Poster Award
Zoology	One faculty received Dr. J. S. Datta Munshi Gold Medal by Indian Chapter of International Society for Ecological communications (Poland).
Faculty of Commerce	
Commerce	Dr. Subhash K. B. received UGC Post-Doctoral Fellowship for the year 2009-2011.

16. Internal resources generated

Faculty of Social Sciences	
Economics	Consultancy Rs 60,000 ICSSR seminar grant Rs 70,000
Faculty of Natural Sciences	
Earth Science	2 lakh from industrial consultancy
Faculty of Life Sciences & Environment	
Botany	Consultancy Rs. 2,50,000 UGC-SAP phase II Rs. 67,00,000 UGC-Infrastructure grant Rs. 20,00,000 UGC XI plan period Rs. 24,00,000
Microbiology	Microbial count before and after fumigation in Bom Jesus Church Old Goa Pest Control of India Ltd., Goa –(Rs.30,798/)
Zoology	From the surplus amount of the conference department procured some furniture for the Instrument room.
Biotechnology	DBT-HRD programme- 32,67,954/-
Faculty of Management	
Management	Consultancy to Prudent Media Rs. 15,000/- Training executives in Aparant Iron and Steel Company Limited, Goa, Rs. 30,000/-

17. Details of assistance/recognition under SAP, COSIST (ASSIST)/DST, FIST, and other programmes

Faculty of Natural Sciences	
Chemistry	DST-FIST: 148 lakh UGC SAP: 22.7 lakh(including infrastructural grants)
Earth Science	Rs. 20,00,000 received from UGC under SAP.
Electronics	UGC Innovative program 2007-2012, Rs. 70 Lakh
Faculty of Life Sciences & Environment	
Botany	SAP- Rs. 67 lakh, Phase-II
Microbiology	UGC fellowship for Meritorious students. FIST
Biotechnology	Rs. 30 lakh under Replacement of obsolete equipment for PG teaching programme (DBT)

18. Community services

Faculty of Languages & Literature	
Hindi	Faculty worked as chairperson, member of different associations, committees, gave lectures in different Govt. & Semi Govt. Institutions and Banks.
Marathi	Dr. S. M. Tadkodkar appointed as adjudicator expert for Govt. of Goa, North Maharashtra University, Central Govt., University of Pune, Shivaji University, Kolhapur.
Faculty of Social Sciences	
Economics	Dr S.M. Noronha was an expert on the sub-committee constituted under Goa State Minimum Wage Advisory Board of Government of Goa (2009-10). She is also a member of the Goa State Board for Wildlife.
Faculty of Natural Sciences	
Chemistry	Faculty members actively involved in community services. Dr. V. S. M. Vernenkar assisted Department of Earth Science in conducting a workshop in the village Shel Melavali on 14 th March 2010.
Mathematics	Participation in training programmes for students
Electronics	Lecture delivered by Dr. R. S. Gad at Goa Science Centre on developing project in Electronics; invited by District Technical Education board, Goa. Member, Technical Committee, Drug and Food Dept., Govt. of Goa.
Faculty of Life Sciences & Environment	
Botany	Science popularization Taxonomic guidance for mushrooms Ecological advocacy Networking with NGOs and farmers Work-shop on plantation and biodiversity and conservation
Microbiology	Assessment of effect of fumigation on microbial quality of heritage site
Zoology	Department organized exhibitions and video show on science day
Biotechnology	Science Day Celebrations:-Open House & competitions to neighbouring

	schools.
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19. Teachers and officers newly recruited

Biotechnology	One temporary teacher
Chemistry	Two temporary teachers in Physical Chemistry.
Economics	One temporary teacher
Political Science	One temporary teacher
Zoology	One temporary teacher

20. Number of Teaching & Non-teaching staff in the Department

Faculty of Languages & Literature	
English	4 teaching and 2 non-teaching staff members
French	2 teaching and 2 non-teaching staff members
Hindi	2 non-teaching staff
Marathi	3 teaching and 2 non-teaching staff members
Konkani	4 teaching and 2 non-teaching staff members
Portuguese	1 Temporary
Faculty of Social Sciences	
Economics	04 teaching and 2 non-teaching staff
Sociology	03 teaching and 2 non-teaching staff
History	03 teaching and 2 non-teaching staff
Political Science	02 teaching and 2 non-teaching staff
C.W.S.	01 teacher, no non-teaching staff
Philosophy	04 teaching and 2 non-teaching staff
CLAS	02 teaching and 2 non-teaching staff
Faculty of Natural Sciences	
Chemistry	11 teaching and 5 non-teaching staff
Computer Science	7 teaching staff and 5 Non-teaching staff
Earth Science	05 teaching staff and 03 non-teaching staff
Mathematics	05 teaching staff and 02 non-teaching staff
Physics	06 teaching staff and 03 non-teaching staff
Electronics	02 teaching staff and 2 non-teaching staff
Faculty of Life Sciences	
Botany	07 teaching staff and 05 non teaching staff
Microbiology	05 teaching staff and 05 non teaching staff
Zoology	05 teaching staff and 05 non teaching staff
Marine Science	06 teaching staff and 03 non teaching staff
Biotechnology	05 teaching staff and 05 non teaching staff
Faculty of Commerce	
Commerce	04 teaching staff and 02 non teaching staff
Faculty of Management	
Management	07 teaching staff and 02 non teaching staff

21. New books/journals subscription proposed by the Department and their value

Sr. No.	Department	No. of Journals	Cost in Rs.	No. of books	Cost in Rs.
Faculty of Languages & Literature					
1	English	2	75184.00	143	71442.00
2	French	17	89719.00	51	55784.00
3	Hindi	12	265031.00	359	67819.00
4	Konkani	17	113563.00	349	56571.00
5	Marathi	23	73554.00	462	82150.00
6	Portuguese	12	107935.00	15	11552.00
Faculty of Social Sciences					
7	Economics	23	107639.00	124	108588.00
8	Sociology	16	87353.00	136	137211.00
9	Philosophy	7	215385.00	53	92028.00
10	History	19	7960.00	152	96889.00
11	Political Science	11	254671.00	77	59731.00
12	CLAS	5	91393.00	78	132205.00
13	C.W.S.	0	0.00	45	36756.00
Faculty of Natural Sciences					
14	Chemistry	12	539075.00	159	145943.00
15	Mathematics	15	410163.00	55	58787.00
16	Computer Science	10	245160.00	142	149471.00
17	Physics & Electronics	6	97271.00	15	3555.00
18	Earth Science	1	5088.00	40	170936.00
Faculty of Life Sciences					
19	Botany	17	230155.00	74	192686.00
20	Microbiology	19	299538.00	39	151436.00
21	Marine Science	19	6180.00	34	174732.00
22	Zoology	14	246474.00	59	90604.00
23	Biotechnology	4	84945.00	32	82549.00
Faculty of Commerce					
24	Commerce	39	158919.00	69	43556.00
Faculty of Management					
25	Management	6	1520.00	86	71787.00

22. Action taken on student feedback on courses /teachers

Faculty of Languages & Literature	
English	Teachers briefed by the Head of the Department, suggestions offered by students discussed.
Hindi	Remedial and tutorial classes conducted.
Marathi	Actions planned for the next academic year based on student feedback of the current year.
Faculty of Social Sciences	
Economics	New teaching aids adopted.

Sociology	Teachers informed about student feedback.
History	The student feedback did not warrant any action to be taken.
Political Science	Based on the feedback received from students, relevant study material made available in the library.
Faculty of Natural Sciences	
Chemistry	Students feedback for the last academic was satisfactory; however, teachers were advised to improve upon.
Earth Science	Teachers given the student feedback for their perusal.
Electronics	Relevant suggestions were informed to the concerned course instructors.
Faculty of Life Sciences	
Botany	Student feedback is discussed in the departmental council and necessary action taken as per the feedback.
Microbiology	As and when required necessary action is taken to rectify and solve student problems, if any.
Biotechnology	Feedback discussed at D. C. Meeting
Zoology	Student feedback placed before department council, analyzed and measures taken for improvement.
Faculty of Management	
Management	New electives started for perspective building Visiting faculty selection was based on student feedback

23. Feedback from stakeholders: At present, the University is not having a mechanism to collect entire stake-holder feedback. Only student feedback was introduced.

24. Computerization introduced

Faculty of Languages & Literature	
English	The entire administration including admissions and examinations are totally computerized.
Marathi	Fully computerised/Admission online
Faculty of Social Sciences	
Economics	Internal departmental administration 80% computerisation.
History	Within the parameters laid down by the university, the administration of the department, including the process of admissions, examination, etc., is computerized.
Faculty of Natural Sciences	
Chemistry	Computer facility provided for administrative work and the departmental administration is completely computerised.
Earth Science	Office equipped with a desk top system with the printer. The process of admissions and examination results, issue of certificates etc. computerized.

25. Infrastructural facilities added in the Department

Faculty of Languages & Literature	
English	The Department added two PCs and one laptop.

Marathi	<ol style="list-style-type: none"> 1. Replacement of old computers furniture 2. Purchase of compact disk containing learning material 3. Software for language laboratory
Faculty of Social Sciences	
Economics	New PCs in Lab and PCs for all faculty and research scholar rooms White and pin boards for all faculty.
Faculty of Natural Sciences	
Chemistry	<p>Following instruments/equipments were added to the Department during the last academic year</p> <ol style="list-style-type: none"> 1. Gas Chromatography 2. Flash Chromatography 3. LCRQ meter 4. 5KVA online UPS; 5. Syringe pump 6. Polymer Press 7. High vacuum pump
Earth Science	Computer lab strengthened for conduct of GIS and other computer based practices. Proposed three microscopes for Practical work.
Faculty of Life Sciences	
Botany	Poly house, PCR, fraction collector, Shakers, Departmental library, replacing the old computers in the computer laboratory, etc.
Microbiology	Air conditioners for the laboratories Isoelectric focusing (IEF) system
Biotechnology	<ol style="list-style-type: none"> 1. Servo controlled Stabilizer 2. Rotary Vacuum Evaporator 3. Orbital Shaking Incubator 4. Microprocessor Controlled Test Chamber 5. Stirred Cell 6. Shimadzu balance 7. Freeze Dryer 8. Ultra Low Freezer -80.C 9. GPS Receiver 10. Gel Doc system 11. Bio Safety 12. Refrigerator Circulating bath 13. 2 Ton AC 2 Nos. 14. Fraction collector 15. Homogenizer 16. Microscope Binocular 5 Nos. 17. Fluorescence 18. Chilled water circulation 19. Computers HCL 10 Nos 20. Sharp Xerox Machine 21. LCD Projector – Hitachi 22. Sony cyber shot camera 23. Electrophoresis units 24. Circulating Water Bath 25. Multiparameter

Faculty of Commerce: White boards for the classrooms

Faculty of Management: New laptops, furniture
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26. Technology upgradation

Faculty of Languages & Literature	
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Hindi	Internet facility added
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Marathi	Upgrading of Computers
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Faculty of Natural Sciences	
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Chemistry	Development of new nano-materials Students trained in research areas by faculty members
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Electronics	EDA tools of ALTERA and FPGA boards added
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27. Computer and internet access and training to teachers, non-teaching staff and students

Faculty of Languages & Literature	
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English	One PC per teacher; Two PCs available for students; Wireless internet facility available.
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Hindi	All teachers have access to PCs, 2 hours for part I and 2 hours for part II students per week.
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Marathi	Three desktop and LCD projector, 1 PC for 07 students
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Faculty of Social Sciences	
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Economics	All teachers have PCs. 17 PCs available on sharing basis for 60 students. Wi-fi connectivity available
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Sociology	One PC and one laptop shared by teachers; 2 PCs for students
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History	4 PCs for teachers; 5 PCs for 37 Students use the computer facility as per their convenience. There is good co-ordination and sharing of computers among the students and so need is not felt to allocate number of hours per student per day to have access to the computers. Wireless internet facility available.
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Political Science	1 PC per teacher; 2 PCs for 24 students, Internet connectivity available for students.
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Faculty of Natural Sciences	
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Chemistry	Department has one computer per teacher; internet access to research students.
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Earth Science	Students, non-teaching staff and teachers are provided with Internet access available on all computers in the Computer lab and also in the faculty rooms.
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Electronics	One PC per teacher available. 10 PCs for 30 students; wireless internet connectivity available for students
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Faculty of Life Sciences	
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Biotechnology	4 PCs for 05 teachers, 24 hr internet connectivity to students
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Botany	2 PCs per teacher, 01 PC per student
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Zoology	Computer room with internet facilities, class rooms with LCD projector and internet facilities
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Faculty of Management	
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Management	One laptop per teacher.
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28. Financial aid to students

Faculty of Languages & Literature	
Hindi	Approx. Rs. 5,000 average amount received by each ST, SC and OBC students
Marathi	Six students Rs.15000/-
Faculty of Social Sciences	
Economics	17 students; Average amount Rs 2300 per month per person
History	Six @ Rupees 7,785
Faculty of Natural Sciences	
Chemistry	Many of our students get merit scholarships from the University. Presently our three research students gets Rs. 5000/- p.m./each About 20 MSc-Part II students were given 2000/- per year/each
Earth Science	Financial aid worth of Rs. 13,800/- has been provided to 6 students (under merit scholarship and tuition Fee exemption schemes) by the university.
Electronics	One student obtained financial help
Faculty of Life Sciences	
Botany	2 Ph.D. (~Rs. 5,000 pm) Two M. Sc. Students (Tuition Fee)
Biotechnology	All students receive studentship from DBT. Two students receive scholarship from KVPY & NCERT.
Zoology	Students are availing the merit scholarship and free studentships
Faculty of Management	
Management	7 students – Average amount Rs. 68,000/-

29. Activities and support from the Alumni Association

Faculty of Social Sciences	
Political Science	Creation of an informal group POLSCAN Goa (Political Science Alumni Network Goa) has taken place. The group had two meetings. At the request of the group, the department organised a series of weekend interactions for UGC NET/SET exam in 2009.
Faculty of Natural Sciences	
Chemistry	Activities of Chemistry Department Faculty & Alumni Association (CDFAA):- <ol style="list-style-type: none"> 1. Organised the intercollegiate one day symposium on Fascinating aspect of Chemical Sciences for the benefit of undergraduate chemistry students from affiliated colleges on 27th February 2010. 2. The annual General Body Meeting of the Association was held to review the last year's activities and to plan for the future 3. Felicitated three ex-students of our Department who have cleared CSIR-UGC-JRF (NET) examination in 2009. 4. 11 poor and needy meritorious M.Sc. students of the Department were given fellowship of Rs.1000/- per month through CDFAA.

Computer Science	Meeting planned
Mathematics	Two meetings of the Association held.
Electronics	Helped in organizing Symposium on “ VLSI AND EMBEDDED SYSTEM SYMPOSIUM” on 5 th February 2010 Hosted a blog of their own at http://guelectronics.blogspot.com
Faculty of Management	
Management	Alumni invited for interaction with students, for conducting mock interviews, and for internship presentations. Alumni group formed on Facebook and alumni from across batches invited to join the same – to provide a common platform to share experiences, for continued learning.

30. Activities and support from the Parent-Teacher Association: The University does not have a Parent-Teacher Association as of now. Attempts will be made in future for this purpose.

31. Performance in sports activities by Department students/ staff

Faculty of Languages & Literature	
Hindi	Students participated in the University cricket team
Faculty of Social Sciences	
Political Science	One student reached the finals of University Badminton championship
Faculty of Natural Sciences	
Chemistry	Students participated in interdepartmental games such as cricket, football etc. Students also organised games for the department.
Electronics	Won first prize for TT in all Goa University competition
Earth Science	Only about 25% of students take part in the university tournaments and the performance is not quite satisfactory.
Faculty of Life Sciences	
Zoology	Encourage students to take part in inter departmental sports activities in the campus

32. Incentives to outstanding sportspersons of Department (students/ staff): In order to encourage the students to participate in sports, incentives are provided as per relevant Ordinances of the University.

33. Student achievements and awards

Faculty of Languages & Literature	
Hindi	Two gold medals awarded to top rankers
Marathi	Miss Sweta Coelho, Gold medallist for 2008-2009 Miss Tejashree Tari, Gold medallist for 2009-2010
Faculty of Social Sciences	
Political Science	One student admitted to a UK University, also qualified the UGC NET Exam
Faculty of Life Sciences	

Botany	Best poster awards by a 2 Ph.D. students Gate and NET (lectureship) by one student
Microbiology	UGC: Extension of UGC Research Fellowship in Science for two Meritorious Students Jawaharlal Nehru School Scholarship for Doctoral Studies to one student
Biotechnology	Five M. Sc. II students qualified DBT–JRF under category A and three students under category B. Six M. Sc. II students awarded CSIR-UGC JRF and 5 students granted the UGC-NET lectureship. Seventeen students cleared the GATE exam with more than 90 percentile. Mr. Akshay Kumar Ganguly secured 99.98 percentile in GATE Life Sciences (All India Rank – 2); Ashish Kabra secured 99 percentile (All India Rank-51) Three M.Sc. I students selected to attend the Science Conclave (meeting with Nobel Laureates) at IIT, Gandhinagar, December, 2009.
Faculty of Management	
Management	One student won the Business Research Plan Competition conducted by IIT Roorkee 2 students were involved in hosting the NIPM western regional conference organised in Goa.

34. Activities of the Guidance and Counseling unit of Department

Faculty of Languages & Literature	
Marathi	Each student was offered with guidance and counselling
Faculty of Social Sciences	
Economics	Dr S.M. Noronha heads the Guidance and Counselling cell in the Department. Each academic year a formal counselling session is held for new students.
Political Science	Weekend Classes for UGC NET/SET Exam were conducted for students.
Faculty of Natural Sciences	
Chemistry	Students of First year MSc. Chemistry were advised by the faculty on the first day of the semester.
Computer Science	Counselling done by DC as and when required.
Earth Science	No formal cell exists however all teachers take good interest in discussing with students to understand their problems and advising students regarding career and studies and provide help related to subject by taking extra hours of lectures.
Faculty of Life Sciences	
Botany	Guidance and counselling is integral part of the department and allotted a schedule in the time table for the purpose.
Microbiology	No department unit but students given guidance and counseling by faculty when approached.
Zoology	Faculty provides guidance and counselling to the student as and when

	required.
Faculty of Management	
Management	Each group of six students has a mentor who is a teacher, who offers counselling.

35. Placement services provided to students

Faculty of Languages & Literature	
English	By Placement cell of University
Faculty of Natural Sciences	
Chemistry	Three M Sc students selected by Syngenta Pvt. Ltd, Goa through placement services.
Computer Science	18 out of 29 were employed through campus placements.
Earth Science	Five students selected by local mining companies through campus placements
Faculty of Management	
Management	Companies are invited for Campus recruitment; all facilities provided by the department to promote placement opportunities for students.

36. Development programmes for non-teaching staff

Faculty of Languages & Literature	
Marathi	Training programme on Records Management organised for group C employees.
Faculty of Social Sciences	
Economics	In house computer training and office automation.
Political Science	Staff encouraged to attend various training programs organised by the University for enhancing their competence. Training Program for LDCs for admission, Record Management organised.
Faculty of Natural Sciences	
Chemistry	Attempts were made by conducting meetings of non-teaching staff and allowing them to attend special orientation programs conducted by the University. Some of them have also trained to handle equipments, chemicals etc.
Earth Science	Non-teaching staff have been permitted to attend the training programs in office administration and computer and internet usage conducted by the university.
Faculty of Life Sciences	
Botany	Regular training is given to LDC/UDC at the University level. The lab assistant and attendant are trained by the faculty members to conduct class room practical exercises.
Zoology	Deputed for computer training program organized by administration.

37. Good practices of the Department

Faculty of Languages & Literature	
Hindi	Department organized class seminar and viva for each student to develop competency.
Faculty of Social Sciences	
Economics	Initiated use of Audio Visual teaching tools for some courses.
Political Science	Academic: Special sessions for remedial teaching. Administrative: Personal feedback sought from staff regularly on their specific needs and limitations.
Faculty of Natural Sciences	
Chemistry	<ul style="list-style-type: none"> • Department of chemistry started weekly interdisciplinary seminar for the benefit of MSc. and research students. • Faculty members strictly follow the timetable and start and finish lectures in time.
Earth Science	Good interaction with students, timely conduct of exams, field work and regular up gradation of technology
Faculty of Life Sciences	
Botany	<p>Academic:</p> <ol style="list-style-type: none"> 1. Departmental seminar where all students and teachers take part 2. Display of latest science news on department notice board (BOTNEWS) 3. Effective use of Moodle and blogs in teaching 4. Screening of educational films 5. Production of DATA DVD on biodiversity <p>Administrative:</p> <ol style="list-style-type: none"> 1. Display of ISA marks and handing over of the evaluated answer sheets to students. 2. Computerisation of correspondence and other activities as far as possible by the LDC.
Biotechnology	<ol style="list-style-type: none"> 1. Motivating thoughts on Notice boards. 2. Use of LCD projectors for student's seminar.
Microbiology	Invited Lectures of Faculty and senior scientists from premier institutions of India
Zoology	Interaction among students, supporting staff and the teaching staff on various issues pertaining to departmental administrations, academic program and social issues.
Faculty of Management	
Management	Discussion with industry representatives about course outlines.

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

Faculty of Languages & Literature	
English	<p>Liaised with Sahitya Akademi, New Delhi, and Indian Association for the Study of Australia.</p> <p>Liaised with Canadian and Australian Universities for possible student</p>

	exchange programme.
Hindi	1. Sahitya Academy New Delhi 2. U.P. Hindi Sansthan 3. Konkani Academy 4. Kala Academy 5. Arts & culture
Marathi	Gomantak Marathi Akademi 2 Central Institute of Indian languages
Faculty of Social Sciences	
Economics	Institute of Applied Manpower Research (Planning Commission) Govt of India, Narela, Delhi. Technical University of Lisbon, Portugal
Political Science	The department was associated with Indian Institute for Advanced Study, Shimla, in the organization of a conference on Dayanand Bandodkar and his ideas.
Faculty of Natural Sciences	
Chemistry	Some of the department faculty members have linkages with various national institutes such as IIT, Kanpur, Bhabha Atomic research Centre, Mumbai, IIT, Guwahati, NIO, Goa, University of Pune, Pune, National Chemical laboratory, Kolhapur University, Centre for Biometric systems, Department of Chemistry, Ewha Women's University, Seoul, Korea, Institute for Inorganic Chemistry, University of Kiel, Germany
Earth Science	Linkages with NIO and NCAOR for Guest lectures and for M.Sc. dissertation work.
Faculty of Life Sciences	
Microbiology	NIMR, ICAR, NIO
Zoology	Department linked with the NIO, NMR, NCAOR, ICAR for academic as well as research interactions.
Faculty of Management	
Management	Department has exchange program with Ingolstadt University, Germany.

39. Any other relevant information the Department wishes to add.

Faculty of Languages & Literature	
English	The Department is one of its kind which has focussed on courses related to Cultural Studies.
Marathi	Assistance to non government organisations was provided.
Faculty of Social Sciences	
Economics	Dr. P.K. Sudarsan coordinated the economics module of Study India Programme in Goa University. He also coordinated a refresher course in Economics at the ASC, GU. Dr. S.M. Noronha lectured at a refresher course in Economics at the ASC, GU. Dr. Pranab Mukhopadhyay appointed on the Executive Committee of the Indian Society of Ecological Economics. Invited expert at teaching and research workshops in Sri Lanka and Nepal in environmental economics. Also a referee for three international and one national journal.

Faculty of Natural Sciences	
Earth Science	The Department is engaged in conduct of workshops in rural areas under UGC extension program for creating awareness of Management of Natural Recourses and Geosciences Education.
Faculty of Life Sciences	
Biotechnology	The Department proposes to initiate a course in English Communication skills as well a practical non-credit course in Scuba diving for benefit of M.Sc. students.
Botany	Organised students-parents and teachers meeting for the first time.
Microbiology	(i) Organized Poster competition on "Theme Microbes in Advancement of Biotechnology" as a part of National Science Week Celebration 2010. (ii) Workshop on "Review of the New B.Sc. Syllabus and its implementation" for the teachers of Undergraduate Microbiology course in Goa. (iii) Faculty members and students participated in national and International conferences

40. Goals that could not be achieved by the end of the last academic year.

Mathematics	No new faculty members could be added
Microbiology	Second phase application for FIST could not be submitted.
Zoology	Regular teaching vacancies could not be filled.

41. Plans of the Department for the current academic year

Faculty of Languages and Literature	
Hindi	<ul style="list-style-type: none"> • Cultural, literary programmes and Lecture series inviting scholars, to improve awareness of the Indian culture and imbibe moral values among students. • Seminars and Workshops • Starting new courses
Faculty of Social Sciences	
Economics	<ul style="list-style-type: none"> • Project proposal to be submitted for study of Gender Differentials in Pattern of Employment in the Tourism sector: Comparative Study of Algarve (Portugal) & Goa (India), with Technical University of Lisbon. • Internal departmental administration 90% computerisation. • Two additional teachers are recruited. • Publication of 09 articles. • To organise an advanced Training workshop in Data management for teachers and researchers.
Political Science	<ul style="list-style-type: none"> • Research - Developing research themes on 'India and International Political Economy, Democracy and Development, Dayanand Bandodkar and his ideas in the context of Contemporary Goa

	<ul style="list-style-type: none"> • Extension- Supporting civil society groups by way of research and advise on issues such as Human Rights, Right to Information
C.W.S.	<ul style="list-style-type: none"> • Teaching activities : To initiate more courses in Women's Studies • Seminar/Workshops: To reach out to rural parts of Goa through various seminars and workshops • Research/IPR/publications: To bring out papers based on research done by the CWS • Community services etc.: To take women's studies to rural Goa
Faculty of Natural Sciences	
Chemistry	<ul style="list-style-type: none"> • Department of chemistry plans to implement new credit based system for M.Sc. part I. • 3 Seminars/workshops planned for next year • Submission of four research proposals worth Rs. 38 Lakh planned next year • About five research scholars are likely to join for the next academic year. • About fifteen publications are planned for the next academic year. • Community Services: Planned for in next academic year <ol style="list-style-type: none"> 1. Planned to conduct awareness workshops in villages 2. Film shows on awareness of global warming <p>Major additional infrastructure facilities planned for in the next academic year</p> <ol style="list-style-type: none"> 1. ¹H NMR 2. Electrochemical workstation 3. Elemental analyser 4. Microwave oven 5. Rotary Evaporators 6. Upgradation of some instruments <p>Activities Planned for next academic year by Chemistry Department Faculty & Alumni Association (CDFAA):-</p> <ul style="list-style-type: none"> • Getting registered the Faculty & Alumni Association under Societies Registration Act, 1850 and to streamline its activities. • Preparation of a Database of all the Alumni members with necessary details to establish contact and to share information. • Organising lectures on special themes of relevance to alumni members to boost their professional competence. • The 5th annual intercollegiate T.Y.B.Sc. chemistry symposium • The 6th annual meet of CDFAA • Felicitation of meritorious and CSIR-UGC-JRF (NET) examination clearing students. • Fellowship to needy and meritorious MSc students

	<p>Department also plans to establish linkages with</p> <ul style="list-style-type: none"> • NIIT, Calicut • IISc. Bangalore • IIT, Mumbai • Mumbai University • University of Iowa, USA • University of Manchester, UK
Electronics	<p>Teaching</p> <ul style="list-style-type: none"> • Plan to make all teaching instructions on power presentation. • Introduce tutorial in the subject modules. <p>Research & extension</p> <ul style="list-style-type: none"> • Developing cluster computing facility
Earth Science	<ul style="list-style-type: none"> • Introduction of CBCS with a number of electives. • Seminar conducted on Recent Trends in Geosciences. • Research/IPR/publications: Published Two papers. • Optical Lab upgraded. • Community services etc.: Conduct of Geoscience awareness workshops in rural areas for management and conservation of groundwater resources. • Placement activities for students with local mining companies
Faculty of Life Sciences	
Botany	<ul style="list-style-type: none"> • Establishing alumni association of Botany students and their annual meet. • Organise social activity with teachers, nonteaching staff with their families and students. • Intensive use of Moodle in teaching and evaluation.
Microbiology	<ul style="list-style-type: none"> • Five Year Integrated M. Sc course in Ocean Science & Technology • Seminars/Workshops Workshop for Faculty of B. Sc Microbiology and Refresher course in Life Sciences & Environmental Sciences • Plan to publish on average (10) peer reviewed publications • Procurement of books for credit based course • Infrastructural facilities Ice Flake machine, IEF and Centrifuge
Biotechnology	<ul style="list-style-type: none"> • Identifying courses from sister departments which could be opted by students of Biotechnology • Submission of fresh R & D project to various funding agencies. • Celebration of Science Day.
Faculty of Commerce	
Commerce	<ul style="list-style-type: none"> • Planning to develop Guidance & Counselling Cell for M. Com. & M.F.S.

Part C

Detail the plans of the institution for the next year

As mentioned in the part A of the report, it was noticed that serious attempts are required to generate an awareness regarding total quality management in the field of higher education.

The University has identified CII Institute of Quality as an Agency who would help the University for this purpose.

The University intends to enter into a formal association with CII Institute of Quality to take forward its plans for orientation in quality assessment and quality enhancement in its administrative and academic processes. Once this is done, the detailed action plan will be chalked out with the help of this Agency.

Sd/-

Dr. V S Nadkarni
Director, IQAC
Goa University.

Sd/-

Dr. S R Shetye
Vice-Chancellor &
Chairman, IQAC
Goa University