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## जवाहरलाल नेहरु विश्वविधालय JAWAHARLAL NEHRU UNIVERSITY NEW DELHI-110067

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#### PROF. MANOJ PANT DIRECTOR

6<sup>th</sup> June, 2013

#### Dear Sir,

With reference to Annual Quality Assurance Report (AQAR) of JNU for the year 2011-12, to be prepared by IQA Cell as per the UGC Guidelines, we are forwarding the final draft of AQAR. VC is requested to have a look on it and we will really appreciate very much if you give your approval, suggestions and comments for the same.

Thanking You,

Alet Manoj Pant

Vice-Chancellor fice, JNU 3146 2013 10 x 108

## Jawaharlal Nehru University Internal Quality Assurance Cell (IQAC)

Annual Quality Assurance Report, JNU (1 April 2011 to 31 March 2012)



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### Introduction about University:-

The Jawaharlal Nehru University was established in 1969 by an Act of Parliament. It was named after Jawaharlal Nehru, India's first Prime Minister, and was founded by Smt. Indira Gandhi the then Prime Minister of India. It is a research oriented University with approximately eight thousand students and faculty strength of around four hundred and fifty. The University has undergraduate programmes only in foreign languages offered by School of Language, Literature and Culture Studies. All other programmes are at the level of Masters, M. Phil. / Pre-Ph. D and Ph. D. The University has ten schools, four centres, one institute of advanced studies, six affiliated recognized defense institutes and eleven research and development institutes.

Faculty members have been able to attract competitive research grants from many national and international funding agencies. Currently, more than 300 research projects are running in the University. Research grants are also received from DST, DBT, ICMR, CSIR, UGC, ICSSR, ICHR, ICCR, Ministries, European Union, European Commission, Ford Foundation, Welcome Trust etc. In addition to research projects, faculty members are also encouraged to undertake consultancy projects. University has also set up an Advanced Instrumentation Research facility where state of the art equipments have been installed to meet the requirements of many science schools/special centres. University has also set up an Intellectual Property Management (IPM) Cell to facilitate filing of patents and technology transfers.

JNU has been accredited by NAAC for a period of five years with a CGPA of 3.91 on a four point scale at A Grade valid from 5<sup>th</sup> July 2012. This is highest in the Ministry.

#### Additional Services provided by JNU

**The Academic Staff College:** The main objective of ASC is to plan, organize, implement, monitor and evaluate orientation programmes, refresher courses for the newly recruited in-service teachers, academicians and administrators associated with the University system. ASC, JNU, since its establishment in 1989, has been organizing orientation programmes for the college principals and academic administrators of the colleges and universities to update them with the development in the higher education sector through interactions with well experienced resource persons from wide domains of knowledge.

**Jawaharlal Nehru Institute of Advanced Study (JNIAS)** was conceived as a self-contained site of scholarly pursuits in an environment of intellectual fellowship; and a source of academic enrichment for the university. It hosts scholars from all over the world, who despite their diverse disciplinary backgrounds are able to engage in an intellectual conversation that enriches them and benefits the Institute as well as the wider university community.

The JNIAS seeks to promote research and interaction with front ranking scholars from outside India in some of the key areas that the JNU academic community across disciplines is interested in. Some such areas are listed below. The only common requirement would be that all areas supported would have to have multi or trans-disciplinary relevance.

Frontier areas in life sciences such as molecular medicine, human and plant genomics; physical sciences; nano technology etc.; Social and scientific implications of issues of environment such as climate change, sustainable development, etc.;

A study of Nehru and values represented by Nehru which would include study of movements to create an independent democratic state and initiatives, for deepening

of democracy through e.g., social movements for economic, political and social transformation, gender equity, right to information, employment guarantee, education and health for the poor, and so on.

Study of economic, political, social and cultural implications of Globalization. Study of social implications of various cultural forms that have evolved in India over time.

# **Introduction about Internal Quality Assurance Cell** (I.Q.A.C)

In pursuance of the National Action Plan of the National Assessment and Accreditation Council (NAAC), Bangalore, for performance evaluation, assessment and accreditation and quality upgradation of institutions of higher education, the NAAC proposes that every accredited institution establish an Internal Quality Assurance Cell (IQAC) as a post-accreditation quality sustenance measure. Since quality enhancement is a continuous process, the IQAC will become a part of an institution's system and work towards realizing the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of institutions. The IQAC will make a significant and meaningful contribution in the post-accreditation phase of institutions. During the post-accreditation period, the IQAC will channelize the efforts and measures of an institution towards academic excellence.

IQAC was established in January, 2012 having one Chairperson, one Director, three external members and nine other members. The Committee meets periodically to access the system of promotion and suggest ways to improve teaching and research activities.

# Section A: Plan of action chalked out by the IQAC in the beginning of the year (2012-13) towards quality enhancement

- 1. IQAC is planning to set an IQAC website having all the information including forms etc. It is also planned to add lecture schedules for all courses of different schools/ centres on JNU website.
- 2. IQAC is planning to implement the new API scoring system for both CAS and direct recruitments. Some points need to be clarified in API system so as to have clear understanding of the new system.
- 3. IQAC is initiating debate to maintain standard and quality throughout the University as a number of IQAC meetings are held to get suggestions, views and issues regarding quality enhancement.
- 4. IQAC has started analysis of faculty performance on the basis of their publications in journals, books and chapters in books. The analysis of Science Schools is completed on the basis of Annual Reports, Scopus and list of publications received from the faculties. The report prepared by IQA Cell was forwarded to various Schools/Centres for feedback. We have incorporated the changes received from Schools /Centres. IQA Cell will continue the process in the next year for other Schools of JNU.

5. To have a clear picture of quality of publications of faculties and to have a distinction between refereed and non-referred journals, every School/Centre is requested to send the Categorized list of Journals. These lists are available on JNU website and are used to access API scores of all candidates for promotion and direct appointments.

# Section B: Details in respect of the following (attach separate sheet).

#### Activities reflecting the goals and objectives of the institution

The University laid down the following objectives for itself: to disseminate and advance knowledge, wisdom and understanding by teaching and research; and by the example and influence of its corporate life to promote the study of the principles for which Jawaharlal Nehru worked during his life-time, namely national integration, social justice, secularism, a democratic way of life, international understanding and a scientific approach to the problems of society. Towards this end, the University was entrusted with the task of:

- fostering the composite culture of India through the establishment of such departments or institutions as may be required for the study and development of the languages, arts and culture of India;
- taking special measures to encourage students and teachers from all over India to join the University and participate in its academic programmes;
- promoting an awareness and understanding of the social needs of the country in the students and teachers and prepare them for fulfilling such needs;
- making special provision for integrated courses in humanities, science and technology in the educational programmes of the University;
- taking appropriate measures for promoting interdisciplinary studies in the University;
- establishing such departments or institutions as may be necessary for the study of languages, literature and life of foreign countries with a view to inculcate an international understanding and holistic perspective amongst students; and
- Providing facilities for students and teachers from various countries to participate in the academic programmes and activities of the University. Given below are details of activities of Schools, Centres and other bodies of the University from 1 April 2010 to 31 March, 2011.

#### THE SCHOOLS

The University was envisioned as an institution essentially for post-graduate teaching and research. The Academic Advisory Committee of the University had originally planned that the University would be broadly structured into Schools, each with constituent Centres. Today the University has ten Schools:

- 1. School of Arts and Aesthetics (SAA)
- 2. School of Biotechnology (SBT)
- 3. School of Computer and Systems Sciences (SCSS)
- 4. School of Computational and Integrative Sciences (SCIS)
- 5. School of Environmental Sciences (SES)
- 6. School of International Studies (SIS)
- 7. School of Language, Literature and Culture Studies (SLL&CS)
- 8. School of Life Sciences (SLS)

- 9. School of Physical Sciences (SPS)
- 10. School of Social Sciences (SSS)

It also has the following Special Centres:

- 11. Centre for the Study of Law and Governance (CSLG)
- 12. Special Centre for Molecular Medicine (SCMM)
- 13. Special Centre for Sanskrit Studies (SCSS)
- 14. Special Centre for Nano Sciences (SCNS)

#### SAA:-

THE SCHOOL OF ARTS AND AESTHETICS, formed in 2001, has a great growth potential. In a short span, it has become a Centre for promoting inter-disciplinary studies and research into wide-ranging theories of arts and practices, both traditional and contemporary in nature. The School offers MA, M.Phil., and Ph. D. programmes.

#### SBT:-

THE SCHOOL OF BIOTECHNOLOGY, declared as the Number 1 in the country by a National Survey regarding its teaching and training in Biotechnology in 2006 offers both M. Sc and Pre-Ph.D./Ph.D. degrees in Biotechnology. The school emphasizes teaching of Biochemical Engineering, Molecular Biology of Infectious Diseases, Transcription and Human Biology, Molecular Cell Biology and Virus Mediated Signal Transduction. The School offers M.Sc. and Pre/Ph. D., Ph. D. programmes.

#### SCSS:-

THE SCHOOL OF COMPUTER AND SYSTEMS SCIENCES (1975), is one of the foremost institutions that has teaching and research programmes in the area of Computer Science. The School offers programmes of instruction and research leading to the degrees of MCA, M. Tech. (M. Phil.) and Ph.D.

#### SCIS:-

THE SCHOOL OF COMPUTATIONAL AND INTEGRATIVE SCIENCES, earlier School of Information Technology, was started in 2001 and consists of three Centres. The focus of the School is on the core area of Computational and Systems Biology and then on complex systems, High density data analysis, Theoretical biophysical chemistry and computational neurosciences.

- Centre for Computational Biology and Bio-informatics (CCBB) has been functioning since 1988 to provide information services and computational support to researchers working in all areas of biology and life sciences.
- High Performance Computing Centre (HPCC): High Performance Cluster Computing Systems has been set up and maintained by C-DAC, and is funded through the JNU-UPOE Scheme.
- Centre for Complex Systems Study (CCSS) which was approved by the UGC in the XI Plan during 2008 –2009 has now become part of the School.

The School offers M. Tech in Computational and Systems Biology and Pre-Ph. D/ Ph. D in Computational Biology and Bioinformatics

#### SES:-

THE SCHOOL OF ENVIRONMENTAL SCIENCES (1974) has diversified interests in earth, atmospheric and biological processes. Linkages between ecological and social processes give an additional dimension and relevance to the School. The curriculum, therefore, has components of interdisciplinary areas such as physical sciences, earth and atmospheric sciences, environmental biology, environmental monitoring, and management. The School offers M. Phil. /Ph. D and M.Sc. in Environmental Sciences: with specialization in the atmospheric, earth, pollution-related and biological Sciences.

#### SIS:-

THE SCHOOL OF INTERNATIONAL STUDIES (1969). Initially established as the Indian School of International Studies in 1955, SIS is the oldest School of the University. During the 57 years of its existence, the School has established itself as the premier institution in the country for the study of International Relations and in Area Studies. There are eleven Centres in the School that conduct research and teaching in various disciplines.

- Centre for Canadian, US and Latin American Studies (CCUSLAS)
- Centre for East Asian Studies (CEAS)
- Centre for International Trade and Development (CITD)
- Centre for International Politics, Organization and Disarmament (CIPOD)
- Centre for Russian and Central Asian Studies (CRCAS)
- Centre for South Central Southeast Asian and Southwest Pacific Studies (CSCSASWPS)
- Centre for West Asian Studies (CWAS)
- Centre for European Studies (CES)
- Centre for Comparative Politics and Political Theory (CCP&PT)
- Centre for African Studies (CAS)
- Centre for International Legal Studies (CILS)

The School offers M. Phil./Ph. D in International Politics, International Organization, Political Geography, Diplomacy and Disarmament, International Legal Studies, International Trade and Development, South Asian Studies, South-East Asian and South-West Pacific Studies, Central Asian Studies, Chinese Studies, Japanese Studies and Korean Studies, West Asian Studies, African Studies, United States Studies, Latin American Studies, European Studies, Canadian Studies and Russian and Central Asian Studies.;

The School offers two specialized MA programs.MA in Politics with specialization in International Relations.MA in Economics with specialization in World Economy is offered by CITD centre.

#### SLL&CS:

THE SCHOOL OF LANGUAGE, LITERATURE & CULTURE STUDIES (1971) offers undergraduate, postgraduate and research courses in various classical and modern Indian and foreign languages. Language leaning, training in translation and interpretation, Linguistics, Literary and Cultural Studies – the School of top class programmes in all their areas. There are Eleven Centres in the School and a Multimedia Language Laboratory. The Language Laboratory Complex is well equipped with facilities for audio and video recordings, and for educational software production.

- Centre of Chinese and South East Asian Studies (CCSEAS)
- Centre for English Studies (CES)
- Centre for French and Francophone Studies (CFFS)
- Centre of German Studies (CGS)
- Centre of Indian Languages (CIL)
- Centre of Japanese, Korean and North East Asian Studies (CJNEAS)
- Centre for Linguistics (CL)

- Centre of Persian and Central Asian Studies (CP&CAS)
- Centre of Russian Studies (CRS)
- Centre of Spanish, Portuguese, Italian and Latin American Studies (CSPI&LAS)
- Centre of Arabic and African Studies (CAAS)

The School offers M. Phil/Ph. D in Arabic, Chinese, English, French, German, Japanese, Hindi, Hindi Translation, Linguistics, Tamil, Persian, Russian, Spanish and Urdu; M. Phil in Portuguese.; MA in Arabic, Chinese, English, French, German, Hindi, Japanese, Korean, Linguistics, Persian, Russian, Spanish and Urdu; B.A. (Honors) in Arabic, Chinese, French, German, Japanese, Korean, Persian, Russian and Spanish (with entry points in the first and second years) and Part-time programmes such as Advanced Diploma in Mass Media (Urdu); Advanced Diploma of Proficiency in Pashtu; Diploma of Proficiency in Bhasha Indonesia, Pashtu and Italian; Certificate of Proficiency in Bhasha Indonesia, Mongolian, Pashtu, and Urdu;

#### SLS:

THE SCHOOL OF LIFE SCIENCES (1970) has been a premier multi-disciplinary research and teaching department from its inception and has followed innovative teaching and research programmes in selected areas of modern biology. The School has highly advanced and acclaimed research programmes on Plant Genetics and Biotechnology, Regulation of Gene Expression, Human Genetics, Immunology, Radiation and Cancer Biology, Photo-Biology, and Microbial Pathogens. Future plans and projections of the School are to develop centralized facilities for studies on Genomics and Proteomics, Molecular Biophysics, Structural and Systems Biology and to strengthen intensive research and teaching on genetic technologies (transgenomics, genetic variability etc.) involving microbes, plants, animals and humans. The School has been reaching out to all parts of the country to pick students and has tried all possible methods of communication with the students including class-room interactions, examinations, quizzing, seminar presentations, reading and summarizing of research papers, undertaking original research projects and conceptualizing and convening of conference on current topics in the field etc in order to ensure maximal reception of information by the students. With the main focus on CELL AND MOLECULAR BIOLOGY, SLS has built reputed research programmes in the following areas:

- Regulation of Gene Expression
- Nucleic Acid Therapeutics
- Plant Genetics and Biotechnology
- Photobiology
- Human Genetics
- Functional Genomics
- Microbial Pathogens
- Molecular Parasitology
- Molecular Biophysics and Structural Biology
- Immunology
- Radiation and Cancer Biology
- Neurophysiology
- Behaviour

The research pursuits employ microbes, plants and animals as model systems for these studies. The School offers M. Phil. /Ph. D and M. Sc in Life Sciences.

#### SPS:

THE SCHOOL OF PHYSICAL SCIENCES (1986) Over the years, the School has implemented a dynamic teaching programme at the M.Sc. and pre-Ph.D levels. Research activities in the School are primarily in the theoretical areas relating to Quantum Chaos, Computational Physics, Condensed Matter Physics, Disordered Systems, Nonlinear Dynamics, Quantum Optics, Statistical Nuclear Physics etc. In the experimental areas, they pertain to Complex Fluids, Supra-Molecular Chemistry, Magnetism and Polymers & Nano particles Physics. The School offers Pre-Ph. D/Ph. D in Physical Sciences/Chemical Sciences/Mathematical Sciences and M. Sc in Physics: open to the candidates from Physics, Chemistry and Mathematics streams.

SSS:

THE SCHOOL OF SOCIAL SCIENCES (1969). The School of Social Sciences admits approximately, 500 students every year to the M.A., M.Phil/Ph.D. and Direct Ph.D programmes offered to its various Centres. The School also offers a few under-graduate courses for students of the SLL&CS. The School of Social Sciences has thirteen centres and three UGC supported programmes. In addition, the North East India Studies Programme is a University level programme involving the participation of five schools of the University:

- Centre for Economic Studies and Planning (CESP)
- Centre for Political Studies (CPS)
- Centre for Social Medicine and Community Health (CSMCH)
- Centre of Philosophy (CP)
- Centre for the Study of Regional Development (CSRD)
- Centre for Studies in Science Policy (CSSP)
- Centre for the Study of Social Systems (CSSS)
- Zakir Hussain Centre for Educational Studies (ZHCES)
- Centre for Historical Studies (CHS)
- Women's Studies Programme (WSP)
- Centre for the Study of Discrimination and Exclusion (CSDE)
- North East India Studies Programme (NEISP)
- Centre for Informal Sector & Labour Studies (CISLS)
- Educational Records Research Unit (ERRU)
- Group of Adult Education (GAE)
- Archives on Contemporary History (ACHI)
- Centre for Media Studies (CMS)

The School offers M. Phil/Ph. D in Economic Studies and Planning; Educational Studies (Psychology, Sociology, Economics and History of Education); Historical Studies; Political Studies; Regional Development (Geography, Economics, and Population Studies); Social Systems; Social Medicine and Community Health; Science Policy and Philosophy; M. Phil/Ph. D in Women's Studies from 2013 – 2014; Master of Public Health (M.P.H.)/Ph.D.: in the three major areas of Social Medicine, Community Health and Community Health Nursing and MA in Economics, Geography, History, Political Science and Sociology.

#### CSLG:

CENTRE FOR THE STUDY OF LAW AND GOVERNANCE (2000). The Centre for the Study of Law and Governance adopts a multidisciplinary approach to framing research and teaching on the relationship between law and governance. The study of governance, in its various forms and at different sites, is central to several contemporary issues: reform of public institutions and public law; the creation and establishment of procedures and rules that lead to greater efficiency, transparency, and accountability; and the challenge of making governance more inclusive and participatory through the strengthening of democracy and civil society.

The programme's interdisciplinary focus is distinct from mainstream social science approaches to governance or law in its attempt to explore how practices of law and governance are embedded in political, economic, social and historical processes; how practices of governance are dispersed over various sites ranging from the government, bureaucracy, judiciary, community and family; the sociolegal processes that deter or provide access to justice; and notions of governmentality, sovereignty and rights in specific politico-jural regimes.

While the Centre's academic programme produces scholarly research on law and governance, it also seeks to translate theory into practices of governance by initiating debate, sharing research and encouraging dialogue between the academia, government, civil society and NGOs at local, national and global levels. In the decade since it came into existence, the Centre for the Study of Law and Governance has developed at least three attributes that make it a distinctive part of the intellectual landscape.

- The Centre is explicitly inter-disciplinary.
- The Centre has developed a reputation as a location where academic rig our can be meshed with reflection on policy and advocacy.
- The Centre has become a focal point for understanding the links between the formal legal framework and governance in practice.

Since its inception, CSLG has initiated a renewed interest in looking at how practices of governance get stabilized through law, and how these practices open law to further contestation. CSLG is the only academic space in India, and possibly one of the few academic spaces in the world, to have directed intellectual energy towards bringing together an interdisciplinary focus on the relationship between law and governance. The agenda of public policy through an examination of doctrinal law remains incomplete without interrogating the socio-legal processes that embed the practices of governance. CSLG has moved away from the conventional methods of looking at black letter law to using economic and sociological approaches to law in order to redress lacunae in legal research per se in India. The manifold agendas of legal reform and public policy in India remain impoverished in the absence of substantial socio-legal research in many areas of law that impact the everyday life of Indian citizens. The Centre offers M. Phil/Ph. D.

#### SCMM:

SPECIAL CENTRE FOR MOLECULAR MEDICINE (1999): - The discipline of 'Molecular Medicine' is a newly emerging area of biomedical sciences contributing to the understanding, prevention and cure of human diseases. The Special Centre for Molecular Medicine (SCMM) at Jawaharlal Nehru University is the first of its kind in India. The objective of the SCMM is to foster teaching and research activities in the study of human diseases with application of advanced tools of molecular and cell biology. The training programme has been designed to create essentially two types of scientists who can contribute to the continuing progress of Medicine. Type one is first and foremost a clinician with a basic clinical degree, but one who is familiar with and understands the essence of modern biology at the molecular level as applied to medicine. The second is a modern biologist, but one who is sufficiently knowledgeable in medicine to deal productively with the medical problems so as to deliver products or processes to society. The Centre offers Pre-Ph. D /Ph. D.

#### SCSS:

SPECIAL CENTRE FOR SANSKRIT STUDIES (2001). The Centre for Sanskrit Studies in JNU set up in 2001 has been established to:

- Negotiate between, and bring together, through interactive projects, the traditional scholars/scholarship and the mainstream university scholars/scholarship
- Undertake maintenance and preservation of heritage texts and manuscripts
- Constitute and expound theoretical framework from the primary intellectual texts of the Sanskrit tradition, and
- Extend and validate the classical theories by applying them both to contemporary Indian reality (modern Indian languages, literatures, etc.) and to contemporary European Languages and literatures (to reverse the existing data-theory relationship between the Indian academy and the Western academy and to recover theory status for the Indian thought),
- Undertake comparative research in Indian and Western traditions of thought in linguistics, literary and cultural theory, philosophy including philosophy of language, metrics and prosody, sociological thought, polity, gender, and ethnic studies and culture.

These objectives are sought to be achieved by training students and researchers through a carefully evolved teaching and research programmes at M.A. and M. Phil. /Ph.D. levels.

#### DEFENCE/RESEARCH AND DEVELOPMENT INSTITUTIONS

JNU has granted recognition and accreditation to the following prestigious institutions across the country. This has added to the true national character of the University. Representatives of these

institutions serve on various academic and statutory bodies of JNU. Similarly, JNU faculty also participates in the academic bodies of these Institutions. Defense Institutions

- Army Cadet College, Dehradun
- College of Military Engineering, Pune
- Military College of Electronics and Mechanical Engineering, Secunderabad
- Military College of Telecommunication Engineering, Mhow
- National Defence Academy, Pune
- Naval College of Engineering, Lonavla
- Research and Development Institutions
- Centre for Cellular and Molecular Biology, Hyderabad
- Centre for Development Studies, Thiruvananthapuram
- Central Drug Research Institute, Lucknow
- Central Institute of Medicinal and Aromatic Plants, Lucknow
- Institute of Microbial Technology, Chandigarh
- International Centre for Genetic Engineering and Biotechnology, New Delhi.
- National Institute of Immunology, New Delhi
- Inter-University Accelerator Centre, New Delhi
- Raman Research Institute, Bengaluru
- National Institute for Plant Genome Research, New Delhi
- Bhabha Atomic Research Centre, Trombay, Mumbai

#### FACULTY

The JNU faculty numbers nearly 450 and like the student body, the faculty is also representative of the diversity of our country. Approximately one quarter of the faculty is female; the complete data is given in the table below.

- Present Strength:- 452. Male 305 (as on 31.3.2012) Female 147
- Professor Associate Professor Assistant Professor:- 203, 134, 115
- Professor Emeritus Honorary Professors:-15, 04

#### Academic Achievements

Besides evolving innovative programmes of study and courses, teaching, guiding and conducting research beyond the conventional bounds of their narrow areas of specialization, members of the faculty are engaged in writing and editing books, contributing chapters to volumes, publishing papers and articles, organizing and participating in seminars, conferences and workshops, delivering lectures and managing research projects. During 2011 - 2012 their combined output amounted to the following:

- Books: 115
- Chapters in books: 237
- Papers/Articles in Journals: 632
- Participation in Seminars/Conferences/Workshops: 1349
- Lectures delivered (Outside JNU): 687
- Research Projects: 276
- 1. New academic programmes initiated (UG and PG):-During the year under review, the University offered Ph.D., M. Phil./Ph. D, M. Tech./Ph. D and MPH/Ph. D in 71 disciplines.JNU also offered M. Sc/MCA in 06 disciplines, Master's programme in 24 disciplines; and under-graduate courses (in both Ist and 2nd year) in 09 foreign languages. In addition, it also offered Certificate, Diploma and Advanced Diploma courses in various languages.

#### 2. Innovations in curricular design and transaction:-

- School of Arts and Aesthetics (SAA) :- NIL
- School of Biotechnology (SBT) :- NIL
- School of Computer and Systems Sciences (SCSS) :- The School has introduced lab component in each course. In M. Tech. courses, the students are asked to study and present papers published in reputed international journals to pursue research work. The students, supported by faculties, have also started specialized lecture series for JNU student community. This platform helps the students to discuss research problems with other students even from other Schools. In future there is more possibilities to have more interdisciplinary research work. A library has also been started where students can read journals/ magazines besides advanced books. School has also introduced new courses and has updated courses from time to time.
- School of Computational and Integrative Sciences (SCIS) :- NIL
- School of Environmental Sciences (SES):- SES has designed and implanted new curriculum for M.Sc. Env. Sciences. Modifications have been made in course work from time to time by adding new courses and new contents.
- School of International Studies (SIS):- The School runs M.A Programme on International Relations. The Board of Studies has resolved to review and reorganized the courses specially their orientation with reference to the experience drawn from the countries of Asia, Africa and Latin America. Two meeting of the group has already taken place where students are also invited to participate.
  - Centre for Canadian, US and Latin American Studies (CCUSLAS):- A new course on "Introduction to Society and Culture in the United States" has been submitted for consideration.

#### • School of Language, Literature and Culture Studies (SLL&CS):-

- Centre of Chinese and South East Asian Studies (CCSEAS) :- NIL
- ➢ Centre for English Studies (CES) :- NIL
- Centre for French and Francophone Studies (CFFS):- A number of new courses were introduced at the Centre under UGC innovative programme.
- Centre of German Studies (CGS) :- NIL
- Centre of Indian Languages (CIL) :- NIL
- Centre of Japanese, Korean and North East Asian Studies (CJNEAS) :- NIL
- Centre for Linguistics (CL) :- NIL
- Centre of Persian and Central Asian Studies (CP&CAS) :- NIL
- Centre of Russian Studies (CRS) :- NIL
- Centre of Spanish, Portuguese, Italian and Latin American Studies (CSPI&LAS):-NIL
- Centre of Arabic and African Studies (CAAS) :- NIL
- School of Life Sciences (SLS):- Modifications have been made in M.Sc. and M. Phil./ Ph. D course work from time to time by adding new courses and new contents.
- School of Physical Sciences (SPS):-Two new courses will be offered at pre-Ph. D level. These are:- (i) Advanced Inorganic Chemistry and (ii) Crystallography: Basic Principles and Application (both having 3 credit)
- School of Social Sciences (SSS):-
  - ➤ Centre for Economic Studies and Planning (CESP) :- NIL
  - Centre for Political Studies (CPS) :- NIL
  - Centre for Social Medicine and Community Health (CSMCH) :- NIL

- Centre of Philosophy (CP):- NIL
- > Centre for the Study of Regional Development (CSRD) :- NIL
- Centre for Studies in Science Policy (CSSP):- :- NIL
- Centre for the Study of Social Systems (CSSS):- NIL
- > Zakir Hussain Centre for Educational Studies (ZHCES) :- NIL
- Centre for Historical Studies (CHS) :- NIL
- ➢ Women's Studies Programme (WSP) :- NIL
- > Centre for the Study of Discrimination and Exclusion (CSDE) :- NIL
- ▶ North East India Studies Programme (NEISP) :- NIL
- Centre for Informal Sector & Labour Studies (CISLS) :- NIL
- Educational Records Research Unit (ERRU) :- NIL
- ➢ Group of Adult Education (GAE) :- NIL
- Archives on Contemporary History (ACHI) :- NIL
- Centre for Media Studies (CMS) :- NIL
- Special Centre for Molecular Medicine:- NIL
- Special Centre for Study of Law and Governance:- NIL
- Special Centre for Nano Sciences:- NIL

#### 3. Inter-disciplinary programmes started:-

- School of Arts and Aesthetics (SAA) :- NIL
- School of Biotechnology (SBT) :- NIL
- School of Computer and Systems Sciences (SCSS) :- The School provides teaching on basic computer science courses to the students of SLL & CS. The School at present is also conducting special programmes in Mathematics and statistics for the benefit of all interested students of JNU under Mathematical and Computation Empowerment Cell.
- School of Computational and Integrative Sciences (SCIS) :- NIL
- School of Environmental Sciences (SES):- SES encourages the students to take courses offered by different schools such as SLS, SBT, and SPS. SES is also taking teaching of environmental science to undergraduates in SLL & CS.
- School of International Studies (SIS):- The School is starting two inter-disciplinary programmes in the field of Human Rights and Energy Security Studies. These programmes will draw expertise from the core competence of School. The programmes will include teaching at M.A. level and Research at Ph. D level. The work is in progress.
- School of Language, Literature and Culture Studies (SLL&CS)
  - > Centre of Chinese and South East Asian Studies (CCSEAS) :- NIL
  - ➢ Centre for English Studies (CES) :- NIL
  - > Centre for French and Francophone Studies (CFFS) :- NIL
  - ➢ Centre of German Studies (CGS) :- NIL
  - Centre of Indian Languages (CIL):- All courses offered by the Centre to M. Phil./Ph. D students are interdisciplinary in operation and design.
  - Centre of Japanese, Korean and North East Asian Studies (CJNEAS)
  - Centre for Linguistics (CL):- CL developed new courses that were taught by faculties of different School/Centres, JNU. The faculties of Centre are working on research projects and have publications that involve participation of faculty members from other School/Centres.
  - Centre of Persian and Central Asian Studies (CP&CAS):- CP & CAS has been developing interactive studies at M. Phil./Ph. D level and encourages students to develop linkage with oriental institutes based in Europe, America and Central Asia.

Similarly, faculties have visited a no. of institutes outside India for research programmes.

- Centre of Russian Studies (CRS) :- NIL
- Centre of Spanish, Portuguese, Italian and Latin American Studies (CSPI&LAS):-NIL
- Centre of Arabic and African Studies (CAAS):- The centre offers inter-disciplinary courses in Arabic and Hebrew.
- School of Life Sciences (SLS):- SLS has interdisciplinary teaching programmes by encouraging the students to take courses offered by different schools, has BUILDER programme for DBT for advanced research and education. The faculties teach under informal cognitive science program.
- School of Physical Sciences (SPS):- NIL
- School of Social Sciences (SSS):-
  - ➤ Centre for Economic Studies and Planning (CESP) :- NIL
  - ➢ Centre for Political Studies (CPS) :- NIL
  - > Centre for Social Medicine and Community Health (CSMCH) :- NIL
  - Centre of Philosophy (CP):-CPS offers inter-disciplinary courses in M. Phil. and U.G. courses.
  - Centre for the Study of Regional Development (CSRD):- The Centre has started new Interdisciplinary programme "Census Data Centre". CSRD is open to researchers and scholars from JNU and other institutions.
  - Centre for Studies in Science Policy (CSSP):- The Centre has got a number of Interdisciplinary courses for M. Phil./Ph. D students and one course for undergraduates. CSSP also organized interdisciplinary seminar series where faculty members from different School/Centre were invited to participate and interact.
  - Centre for the Study of Social Systems (CSSS):- Courses on development, social psychology and studies on gender, media, ecology, culture and tribe.
  - Zakir Hussain Centre for Educational Studies (ZHCES):- All courses offered by the Centre to M. Phil./Ph. D students are interdisciplinary in operation and design.
  - Centre for Historical Studies (CHS): In all courses of Centre there is input of other disciplines such as Sociology, Anthropology, Economics and Visual materials.
  - ➢ Women's Studies Programme (WSP) :- NIL
  - > Centre for the Study of Discrimination and Exclusion (CSDE) :- NIL
  - ➢ North East India Studies Programme (NEISP) :- NIL
  - Centre for Informal Sector & Labour Studies (CISLS) :- NIL
  - Educational Records Research Unit (ERRU) :- NIL
  - ➢ Group of Adult Education (GAE) :- NIL
  - Archives on Contemporary History (ACHI) :- NIL
  - Centre for Media Studies (CMS) :- NIL
- Special Centre for Molecular Medicine:- NIL
- **Special Centre for Study of Law and Governance**:- All courses offered by the Centre to M. Phil./Ph. D students are interdisciplinary in operation and design.
- Special Centre for Nano Sciences:- NIL
- 4. **Examination reforms implemented:** Some centres have used innovative mode of examinations as per the requirement of the course such as Open book examination, oral examination etc. Also writing term papers instead of mid-semester exams to develop writing skills, classroom presentations, tutorials for discussion and development of ideas for paper writing.

- 5. **Candidates qualified: NET/SLET/GATE etc.** :-NET qualified (JRF holders): 42
- 6. **Initiative towards faculty development programme:** Faculties attend a number of Refresher and Orientation course from time to time and also indulge in various activities like foreign visits for seminars/ special lectures/ fellowships to enhance their skills.
- 7. Total number of seminars/workshops conducted:-35
- 8. **Research projects** a) Ongoing: 31; b) Completed: 156.
- 9. Patents generated, if any :-
  - A Recombinant Vaccine against Clostridium Perpfingens Infection and Epsilon (e) Toxin Intoxication. Date of Filling: 01.07.2011 by SBT
  - One by Prof. R. Prasad of SLS.
- 10. New collaborative research programmes: Faculties visit various universities as per MOU's between JNU and many foreign universities and institutes.
- 11. **Research grants received from various agencies**:- Research grant has been received from various agencies like UGC, SAP etc. for various research projects carried out by faculties of JNU.
- 12. Details of research scholars:- List at Annexure I
- 13. **Citation index of faculty members and impact factor**:-JNU has diversified field of studies in various Science and Arts Schools. The impact factor and citation index is not available for publications in Journals of faculty members from Social Science and Arts Schools, so it is very difficult to analyze the quality of publication on the basis of Citation index and impact factor uniformly for all Schools in JNU. Therefore, to have a uniform system for analysis we use the number of faculty publications per year in refereed Journals instead of impact factor or citation index.
- 14. Honors/Awards to the faculty: National and International: Forty one faculties of JNU received honors/ awards during the period under review.

#### 15. Internal resources generated :-

**School of Life Sciences (SLS)**:- All programmes running at individual faculty level helps generate funds internally. Apart from School level, the following grants were made available for both teaching and research:-

| S. No. | Grant- funding agency | Period    |
|--------|-----------------------|-----------|
| 1.     | DST_FIST              | 2008-2013 |
| 2.     | CAPACITY BUILDUP      | 2008-2012 |
| 3.     | UGC networking        | 2008-2013 |
| 4.     | DST PURSE             | 2009-2013 |

**Special Centre for Sanskrit Studies (SCSS)**:- Royalty of five publications by Centre during XI Plan.

School of Environmental Sciences (SES):- Almost all faculties have one or other project funded by different funding agencies.

16. Details of departments getting assistance/recognition under SAP, COSIST (ASSIST)/DST, DSA,FIST, and other programmes :- Various departments are getting assistance for research projects and the list is attached at Annexure II

#### 17. Teachers and officers newly recruited: 25

#### 18. Teaching – Non-teaching staff ratio :- 1:1.03

#### 19. Improvements in the library services:

During year 2011-12, a number of new facilities and resources have been created to fulfil the information needs of faculty/students. Some of these facilities and resources are as follows:

- i) Automated Issue/Return and New Membership Card:-The Library system has been automated. It has 7500 registered users which include students, researchers, faculty members and special members.
- Retrospective cataloguing of various Schools/Centres Libraries:- Central Library initiated a project of cataloguing of all the books available in School/Centre libraries during this period. Retro-conversion and linking up of the different School/Centre libraries is about to complete. Work in the Special Centre for Sanskrit Studies and Centre for German Studies is in process. Retro-conversion job in the Libraries of CHS/SSS, CSSP/SSS, and CGS/SLL&CS is pending.
- iii) Web OPAC Launched (Access from anywhere, anytime):-It is an electronic library catalogue, accessible globally, which contains records of all the books, periodicals, theses, dissertations and other reading materials held by the Library.
- iv) Up gradation of Helen Keller Unit:-Procurement of software Magic and JAWS
- v) Creation of Institutional Repository:-Central Library, JNU has started creation of an Institutional Repository. JNU in-house publications, JNU Faculty Publications (only cover page, table of content, reprints of articles) and other contributions to various journals by JNU faculty may be included in proposed repository.
- vi) Preparing Database of Faculty Publications:-Database of all Faculty publications is being prepared. To begin with list of faculty publications has been compiled.
- vii) Press Clippings:- Completion of the project of digitization of all 7.5 lakh press clippings and uploading of all press clippings on Library Server.
- viii) Display of JNU Faculty Books at World Book Fair 2012
- ix) Seminars / Conferences/ workshops, Library lecture series and outreach programme has been organized.
- x) Recruitment of staff:- During the period, the positions filled in the Central Library were three Assistant Librarians, two Semi Professional Assistant and two Technical Assistant.

#### 20. New books/journals subscribed and their value:-

Acquisition of books: The book procurement in the library has been streamlined and all requests have been processed on monthly basis.

Approximately 6950 news books have been added during this year. During 2011-12, 900+ print/online journals and 24+ databases worth Rs.5+ crore were procured; 2207 books worth Rs.73+ lakh were procured.

New acquisition policy has been prepared. Now Faculty has been given option to purchase urgent books through online bookshop.

New Databases: Following new databases have been added to provide access to more ejournals and theses & dissertations:

- 1) Journal Citation Report (JCR)
- 2) Newspaper Direct (containing 1,700 newspapers from 92 countries in 52 languages)

- 3) Proquest Academic Research Library
- 4) Proquest Literature online with MLA
- 5) Proquest Theses & Dissertations
- 6) SAGE (HSS Package) (Containing 453 e-journals)
- 7) Elsevier science subject collections on Health Sciences and Neuroscience
- 8) SCOPUS
- 9) World Bank E-Library
- 10) Chemistry an European Journal (backfiles)
- 11) Lexis Nexis
- 12) Complimentary Subscription
  - a. Knimbus
  - b. EBSCO Literary Reference Centre Plus
  - c. Indian Journals.com

Besides, free trial accesses for a period of 1 to 3 months' to a large number of databases were also provided.

Print vs. Online database: After a detailed review, print subscription of about Rs.1.2 crore which were already available online through INFLIBNET consortia, were dropped during the period. That money was utilized for subscription of new databases.To create awareness and also to train users about use of these databases, number of orientation programmes were organized for the users of the Library

- 21. Courses in which student assessment of teachers is introduced and the action taken on student feedback: Student Assessment Form of teachers for each course has been provided to all Schools/ Centres and the process of voluntary implementation by the faculty is being followed. The necessary actions are taken as and when required.
- 22. **Feedback from stakeholders**: The students are the stakeholders for the University. Student Assessment Form is made available to all the Schools /Centres which is been implemented for having student feedback.

#### 23. Unit cost of education:- Rs. 233194.00

- 24. Computerization of administration and the process of admissions and examination results, issue of certificates :
  - a. <u>Online Admission Process</u>: Student's admission forms are available online and their submission and processing is also done online. The complete process of students 'registration and results is computerized by outsourced process having features of student's registration, semester registration, course registration, hostel information etc.
  - b. DDO software from NIC, Govt. of India is deployed fro salary processing.
  - c. Project Management software is developed internally that focuses on Project Finance entry for various research projects with features of utility certificate preparations.
  - d. Cheque printing software developed internally to cater the requirements of the cash branch.
  - e. Online form for non-teaching recruitments is deployed.
  - f. E-complaints to register online engineering and network related complaints.

#### 25. Increase in the infrastructural facilities:-

During the assessment period, the following major activities were undertaken:-

• Construction of new buildings of JNU Convention Centre (Centrally Air-Conditioned) with Audiovisual facility, Animal House, Special Centre for Molecular Medicines (SCMM) under 11<sup>th</sup> Plan allocation.

• Construction of Annexes Buildings for School of Social Sciences (SSS), School of International

Studies (SIS), School of Languages, Literature & Culture Studies (SLL&CS), School of Computational & Integrative Sciences (SC&IS), 112 Dwelling Units (Multistoried), Type-III houses for Staff, Repair of JNU Campus. Boundary wall is under progress.

• The Gomti Guest House has been made fully operational with sanction of additional electricity load.

• Renovation/Repair work of Residential Houses & Hostels has been executed.

• Central Air-conditioning system for new SCMM building has been made operational.

• Construction of underground sump of 10 Lacks liters capacity along with Pump House & connecting pipe line near Chandrabhaga Hostel has been completed.

• The New substation building with 2 X 1000 KVA Transformers for new Academic Buildings has been made operational.

• Central Air-Conditioning system of 100 TR capacities for new Animal House building is nearing completion

- 26. **Technology up gradation:-** The technology and website up gradation is done from time to time so as to provide all possible information about JNU online.
- 27. **Computer and internet access and training to teachers, non-teaching staff and students:** Computer and internet facility is available to every faculty and students. From time to time University has conducted training session for staff and students. Wi-Fi is available inside JNU to all faculties and students.
- 30. *Financial aid to students*: Students get a number of scholarships from time to time as per UGC guidelines. The students also get Rajiv Gandhi National Fellowship (RGNF); and MCM from International References.

#### 31. Activities and support from the Alumni Association:-

Professor GJV Prasad was appointed the new Chief Advisor had overseen the growth of the Alumni Association JNU (AAJ) for more than three years and had established certain traditions – the annual AAJ dinner preceded by seminars addressed by JNU Alumni, for instance, to raise funds for the University.

#### 32. Health services:-

University Health Centre provides specialized services in the fields of Cardiology, Dentistry, Ophthalmology, Psychiatry, Dermatology, Orthopedics and ENT. Besides a 24x7 ambulance service fitted with medical gadgets and a Doctor are available. Students and retired employees are given medicine from the Pharmacy of the Health Centre. Lab tests are carried out in biochemistry and Microbiology lab. Besides primary health care to the students, HIV counseling is also done. Counselors are recruited for psychiatric counseling by adult education.

#### 33. Performance in sports activities:-

Participation of students in sports activities is also important. The University has a good stadium and about 11 sports clubs which are active in organizing inter-hostel competitions every year besides inter-school and the annual competitions. Additionally, all the hostels have arrangements for indoor games. The Yoga Kendra has been rendering valuable service to the university community. Besides attending to 50-60 persons every day, the Yoga Kendra has been organizing crash courses on yoga with encouraging response. Three Yoga classes are conducted per day where people from nearby localities also participate.

- 34. **Incentives to outstanding sportspersons**: The students that have outstanding performance in sports get prizes and certificates.
- 35. **Student achievements and awards**: A no. of students are awarded fellowships and have a lot of publications.

- 36. Activities of the Guidance and Counseling unit: All the faculties at JNU provide guidance and interact with students seeking counseling on respective personal matters.
  - Group of Adult Education (GAE):-The Group of Adult Education (GAE) has taken up the 'wellbeing' of JNU student's initiative as part of its adult education and extension programme (e.g. community service) to make students aware of various social and emotional competencies. Social and emotional intelligence or competencies are defined as the composite set of capabilities that enable a person (student) to manage him/her and others. It is more accurate to say that the frequency with which a person demonstrates or uses the constituent capabilities, or competencies, inherent in emotional intelligence determine the ways in which he/she deals with themselves, their life and work, and other. Although the specific labels and reconceptualizations of these competencies may vary, they are a set of competencies addressing:

• Self Awareness, including Emotional Self-Awareness, Accurate Self- Assessment, and Self-confidence;

• Self Management, including Achievement Orientation, Adaptability, Initiative, Trustworthiness, Conscientiousness, and Self-control;

• Social Awareness, including Empathy, Service Orientation, and Organization Awareness; and

• Social Skills, including Leadership, Influence, Communication, Developing Others, Change Catalyst, Conflict Management, Building Bonds, Teamwork and Collaboration.

- 37. **Placement services provided to students**: Placement facility is provided to the students at School level and faculty members are deputed to coordinate the process.
- 38. **Development programmes for non-teaching staff:** Training is provided to non-teaching staff as and when required.
- 39. Good practices of the institution:- JNU is very democratic

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

Memorandum of Understanding is there between JNU and twenty eight other Universities such as Univ. of Edinburgh; Dublin City Univ., Ireland; Univ. of Dhaka, Bangladesh etc. JNU has also signed AOC for academic collaboration with twelve foreign universities/institutes such as School of Law, Wuhan Univ. of China, China; Daito Bunka Univ., Japan; College of Wooster (COW), USA etc. Complete list attached at Annexure III

41. Action Taken Report on the AQAR of the previous year :

AQAR has been prepared for the first time by JNU for the year 2011-12.

#### 42. Any other relevant information the institution wishes to add:-

A **Transparency officer** has been appointed in the University. Prof Sudha Pai (Rector) is the transparency officer.

**Institutional Ethics Review Board (IERB):** - IERB is responsible for reviewing research involving human subjects at JNU to ensure that subject's safety, rights and welfare are protected in conformity with applicable regulations and guidance issued by the ICMR and WHO, and other national agencies, as applicable. IERB shall provide advice to researchers on all aspects of welfare and safety of research participants after ensuring the scientific soundness of the proposed research through appropriate Scientific Review Committee.

# Section C: Outcomes achieved by the end of the year (attach separate sheet if required).

The faculty of JNU has total Nine hundred and eighty four publications in the year 2011-2012 out of which there are 115 books, 237 chapters in books and 632 full research papers published in Journals /periodicals.

The total number of admissions in the year 2011-2012 was as follows: -818 students were admitted to M. Phil /Ph. D, M. Tech/Ph.D., MCH/Ph. D and 782 to MA/M.Sc./MCA. The remaining 335 were admitted to BA (Hons.) in foreign languages; The breakup of men and women candidates was 969 and 966, respectively; In addition to the 1935 candidates admitted to various programmes of study, 196 candidates were also admitted to various programmes of study under the following categories: - Foreign nationals representing 35 countries : 115; Direct Ph.D.: 60; Candidates who could not join last year : 17; NET qualified (JRF holders) : 42. Total no. of admissions as per the performance in the Entrance test, 795 candidates [M. Sc. (Biotech) - 568; M. Sc (Agri.)/M. V. Sc- 175 and M. Tech (Biotechnology) - 52] were offered admission in the programme, of various participating Universities, for the academic year 2011-2012.

## Section D: Plans of JNU for the next year

1. School of Social Sciences(SSS) :-

From the beginning an attempt has been made here to dismantle the narrow disciplinary compartments found in traditional academic structures, and this objective can be seen reflected even in the unusual appointment pattern. Thus, one may find a linguist or an anthropologist in the Centre for Historical Studies; or a demographer and an economist along with geologists or geographers in the Centre for the Study of Regional Development; an economist, a psychologist, a sociologist and a historian in the Centre for Educational Studies.

The M.A. programmes are relatively discipline oriented, but the students are encouraged to offer some courses in the other Centres as well. At the research level the interdisciplinary thrust of the School comes to the fore. Innovation in course contents as well as in the directions of research testifies to the achievements of the School. In recognition of the valuable work done by them many centres within the School have been recognized by the UGC as advanced centres for research under their Special Assistance Programme (DSA). The underlying philosophy that guided the evolution of initial structure of the School was based on the view that for a proper understanding of social reality, an inter-disciplinary approach to the study of social sciences was imperative. It is in pursuit of this objective that the academic programmes of centres within the School and their faculty composition do not exactly conform to the conventional department wise structure which one comes across most of the other Indian universities.

- 2. School of Biotechnology (SBT):-
  - They plan to have independent building for School as it suffers from lack of space even after 25 years of experience in teaching and research.
  - SBT has been rated No.1 Biotechnology School by various surveys and they plan to maintain this status by continuously upgrading their teaching and research to meet international standards.

- Introduction of a separate M. Tech. programme in addition to continuing M. Sc. Programme.
- Improving Industry-University Collaborations.
- More exposure to Biotech Industries for M. Sc. Students.
- 3. School of Computer and Systems Sciences (SCSS) :-
  - New Academic programme:-The areas of statistical computing has become indispensable to pursue advanced research in market and financial systems, national planning, risk analysis and generally in the study and analysis of physical, biological and social systems. The University already approved M. Tech programme in Statistical Computing proposed by School. In order to deliver urgent and efficient services through ICT (with specialization in Health, Agriculture and Education). Increasingly research is becoming interdisciplinary dealing with large complex systems. The School has also proposed to pursue interdisciplinary research programme focusing on application of Mathematics and computing in various disciplines.
  - New thrust areas:- The School plans to pursue research in following new thrust areas like High performance computing, Wireless and sensor networks, Big data and analytics, Cyber security, Computational neurosciences. To strengthen the research in these areas School would require state of the art hardware and software. In this regard the School would approach various research funding bodies.
  - E-Learning:- In order to reach academic and research fraternity, especially the students in remote areas, the School is setting up a well equipped E-learning lab.
- 4. School of Computational and Integrative Sciences (SCIS):-

The major aim of the School is to integrate computational and analytical tools and techniques from different branches of sciences and apply them to find solutions of natural and social sciences. Rapid advancements in science and cutting edge technologies are enabling and driving the research direction and providing innovative approaches a greater opportunity. Fast emerging areas such as computational and systems biology, complex systems studies, high performance computing, artificial intelligence, computational neuroscience are increasingly drawing the attention of researchers worldwide.

The School's academic and research programmes are currently focused on the core area of Computational and Systems Biology and Study on Complex Systems, High density data analysis, Theoretical biophysical chemistry and Computational Neurosciences. SCIS offers M. Tech. and Ph.D. program in the broad area of Computational and Systems Biology. To nurture, strengthen and support all academic activities, a core group of faculty/ researchers is involved in all aspects of teaching, training and research. The Department of Biotechnology (Government of India) has identified the School as a "Centre of Excellence" in Bioinformatics since 2002. Faculty and students are currently pursuing research in diverse fields such as:

- Comparative Genomics
- Structural Biology and in silico Drug Design
- Biological Evolution
- Biomolecular Simulations
- Data Mining and Analysis of Large Scale Data
- Biophysics
- Systems Biology
- Robotics
- Complex Systems, and
- Artificial Intelligence

Teaching and research program in these areas need powerful computational and communication infrastructure. Hence a high performance computing facility and dedicated high speed connectivity has been established at the School in addition to workstations, graphic visualizers and many Personal Computers and laptops.

SCIS has initiated a programme in complex systems supported by the UGC XIth plan, which will study the complex behavior in mathematical, physical, living and social systems. This necessitates the setting up of a core group on computational modeling which will attempt to develop simplified description of a system that can be useful for simulation or analysis. New area of research may enable us to identify patterns that underlie the interrelated systems. Properties such as emergence, evolution, network, structure and dynamics of the systems will be investigated in a collaborative environment.

- 5. School of Environmental Sciences (SES):-
  - Teaching: School has recently reviewed and updated its M. Sc teaching curriculum. It is common practice in the school to review the course every year to incorporate or remove the courses (s) or content (s) of a given course. The quality of SES teaching is well reflected in the fact that almost all of our students are recipient of CSIR or UGC JRF or ICMR JRF.
  - Research:-The faculty has been publishing in leading journals having high impact factor journals (international and national) in the field of environment. Based on the research output, many faculty members of SES have received national and international awards/recognition and are fellow of various academies. The scientific prowess of SES faculty is also evident from the fact that most of them are members of different research committees (DST, UGC, MOEF, Universities)
  - Each faculty of the school is running sponsored by national (CSIR, UGC, DBT, ICMR, MOEF) and international funding agencies. There is increasing intent on the part of SES faculty to participate in collaborative research involving other faculty members within school, within university as well as the expert members from other national and international organization. This aspect has augmented the research output quality of the school significantly.
  - The school has been recipients of school level funding provided under different programmes like UGC-DSA-SAPI and II programme, DST-FIST I and II programme, MOEF's ENVIS centre. These funds have been used to create school level Central Instrumentation Facility (CIF), which is open for use by all SES faculties, research students and for JNU faculty from other schools.
- 6. School of International Studies (SIS):-

With the changing global context, there is a sense in the School that there are a few area study programmes that need to be strengthened to meet the challenges of the time. It is proposed that in next semester, efforts will be made to strengthen at least the following three area of studies:-

- Korean Studies
- Latin American Studies
- South Asian Studies

The School would also like to strengthen the teaching in International Law and Economics by

appointing more faculty members. Besides, the School is actively considering to increase the under graduate courses in SLL & CS and creating facilities for language teaching for the students doing research under area studies programme. SIS is also exploring the possibilities to start research publication of students and faculties.

7. School of Language, Literature and Culture Studies (SLL&CS):-

THE SCHOOL OF LANGUAGE, LITERATURE & CULTURE STUDIES is mainly devoted to teaching and research in various classical and modern Indian and foreign languages, developing pedagogies and technological support for the same, as well as documentation and research in Linguistic Sciences, in different centres of the School. Apart from regular teaching and research activities, the School has few commitments for the year including:-

- Outreach workshop as part of the cross campus activities of School which will empower the teachers of foreign languages engaged in different academic and educational institutions of Delhi.
- A workshop on Developing Elicitation tools and instruments for research in Language acquisition with focus on data from little babies brought up in bilingual environment of Delhi to be conducted jointly by Dr. Sonja Eisenbisis, Department of English Language and Linguistics, Essex Univ. and Centre for Linguistics, JNU as a part of ongoing collaboration programs and activities between Essex University and JNU.
- Collaboration with foreign universities to have translation and interpretation skill of students to enhance their employability in the multinational companies. In the present day globalised world, languages have carved their niche in almost every transaction of Indian trade and commerce.
- 8. School of Life Sciences (SLS):-

The future plans and projections of the School are to develop centralized facilities for Genomics and Proteomics, Molecular Biophysics, Structural and Systems Biology. Facilities for intensive research and teaching on genetic technologies (transgenomics, genetic variability, etc.) involving microbes, plants, animals and humans have to be strengthened. The School's Central Instrumentation Facility (CIF), which is providing core support for research activities, is one of its kinds.

SLS is running a very challenging programme which needs to be sustained and strengthened. The School is planning to run joint inter-disciplinary courses, and also planning to induct new faculty in the areas in which we have lacunae. However, to achieve the above, 50,000 sq. ft. extra space is required to accommodate the new faculty and their labs. The School also needs bigger class rooms and enhancement of funds in LRE for maintenance of equipment and to support research students. The School plans to conduct summer and Winter training workshops, Fascination of Plants Day, Meet the Speaker, Biosparks and outreach programme every year for which additional funding is required. Future plans and projections of the School are to develop centralized facilities for studies on Genemoics and Proteomics, Molecular Biophysics, Structural and Systems Biology and to strengthen intensive research and teaching on genetic technologies (transgenomics, geneic variability etc.) involving microbes, plants, animals and humans.

9. School of Physical Sciences (SPS) :-

With the infusion of new faculty members in Physics and Chemistry programme of School, new areas of research will be consolidated which will focus on determination of atomic

arrangements in single crystals, material preparation, both single crystalline and polycrystalline, chemical synthesis laboratories, chemical organic synthesis laboratories and elemental analysis. As magnetism is a prime subject of study and have cross border in Physics and Chemistry, a major thrust will be along these lines. There is a major interest in Chemistry and Physics of low-dimensional solids and surfaces. Many techniques will be developed and acquired such as: (i) Single crystal XRD; (ii) Specialized furnace etc.

10. School of Arts and Aesthetics (SAA):-

The School of Arts and Aesthetics has a strong research profile that informs its teaching. Their innovative courses attract students from disciplines like art history, architecture, literature and the social sciences on the one hand and cinema and performance practitioners on the other hand who wish to engage with the theoretical and historical context of the arts. Its teaching fulfils research and employment needs within the wider domain of culture, media, Indian heritage and the arts. It is one of the few places in India that offers post-graduate degree courses in the theoretical and critical study of the cinematic, visual and performing arts. Moreover, it is the only place in India where these disciplines are offered in one integrated programme that allows students to understand the individual arts in relation to one another as well as in a broader context of history, sociology, politics, semiotics, gender and cultural studies.

The pedagogic approach of the SAA recognizes that it no longer suffices to study a work of art as an 'object' in isolation, apart from the social forces that shape and give it meaning. The teaching here adopts a multidisciplinary approach drawing on insights from the fields of anthropology, history, media and cultural studies. Students are introduced to a range of research methods that combine archival, ethnographic, theoretical and cultural approaches.

#### **Special Centres:-**

- 11. Centre for the Study of Law and Governance (CSLG):-[ For XII Plan Period]:- The Centre plans to start two new research programmes: (i) The law in Social Sciences programme and (ii) The Critical Governance Studies Programme. The Centre has already initiated the process and organized three international conferences involving scholars from around the world. The Centre's vision for future seeks to bring empirical research into discussions on legal reforms, institute critical perspectives on judicial activism and draw attention to the importance of legal ethnographies to critical legal studies.
- 12. Special Centre for Molecular Medicine (SCMM):-Research: The Centre is planning to expand its scope in the areas of Molecular Diagnostics and Translational Research in future. Teaching: The Centre is planning to start an integrated M.Sc.- Ph. D. programme in the appropriate disciplines of 'Molecular Medicine'.
- 13. Special Centre for Sanskrit Studies (SCSS):- SCSS has following objectives:-
- Negotiate between, and bring together, through interactive projects, the traditional scholars/scholarship and the mainstream university scholars/scholarship
- Undertake maintenance and preservation of heritage texts and manuscripts
- Constitute and expound theoretical framework from the primary intellectual texts of the Sanskrit tradition, and
- Extend and validate the classical theories by applying them both to contemporary Indian reality (modern Indian languages, literatures, etc.) and to contemporary European Languages and literatures (to reverse the existing data-theory relationship between the Indian academy and the Western academy and to recover theory status for the Indian thought),

• Undertake comparative research in Indian and Western traditions of thought in linguistics, literary and cultural theory, philosophy including philosophy of language, metrics and prosody, sociological thought, polity, gender, and ethnic studies and culture.

These objectives are sought to be achieved by training students and researchers through a carefully evolved teaching and research programmes at M.A. and M.Phil./Ph.D. levels.

14. Special Centre for Nano Sciences (SCNS) :- The essence of Nano Science is the ability to work at the molecular level to create super molecular assemblies with fundamentally new molecular organization. Nanotechnology is the application of these assemblies in solving real life problems. Coming to JNU, we realize that there are several groups in School of Physical Sciences, Centre for Biotechnology, School of Environmental Sciences and School of Life Sciences that are actively pursuing research work that touches many aspects of nano-sciences and technology. However, that synergy is clearly missing though collaborations limited to personal levels exist. Since, JNU has the advantage of having the culture of interdisciplinary research ingrained into its ethos; it is natural that a discipline like nano-science and technology gets inroad into the academic program before it is too late. In this spirit, an Advisory Committee comprising of six scientists was set up to explore the possibility of starting such an activity in JNU and following their recommendation Special Center for Nano sciences was established in the year 2010. The Center will provide a platform for advanced research in the area of nano science in the coming years. The Center is in its infancy now, new facilities and equipments are being procured and within a year the full fledged nano science laboratories will be functional and student admission will be launched.

#### Future Plans of Central Library:-

- a. Digitization of theses and dissertations
- b. New Furniture for Central Library
- c. Procurement of E-Books
- d. Remote Access Server
- e. Software to check plagiarism
- f. Procurement of New Server

*Name & Signature of the Director/Coordinator, IQAC* 

Name & Signature of the Chairperson, IQAC

#### **Research Scholars Awarded Degree**

#### (During the period 1.04.2011 to 31.03.2012)

#### **Doctor of Philosophy (Ph.D)**

#### **School of Computer and Systems Sciences**

- 1. Ms Rajni Bala, Selection of a Set of Relevant and Non-Redundant Genes for Classifying Microarray Datasets, Dr R K Agrawal, 12.05.2011
- 2. Ms K V Kadambari, Modelling Interval Distribution of Neural Spike Trains: Entropy Estimation and Information Transmission, Prof Karmeshu, 15.06.2011
- 3. Mr Ahmad Balid, Job-Shop Scheduling Using Multi-Agent Systems, Prof Sonajharia Minz, 11.07.2011
- 4. Mr K S Senthilkumar, Multi-Robot Terrain Exploration and Coverage in Unknown Environments, Prof K K Bhardwaj, 16.08.2011
- 5. Mr Ram Shringar Raw, Position-Based Routing inVehicular Ad-Hoc Network, Dr D K Lobiyal, 15.12.2011
- 6. Ms Deepa Anand, Enhancing Accuracy of Recommender Systems through Various Approaches to Local and Global Similarity Measures, Prof K K Bharadwaj, 21.03.2012
- 7. Ms Madhu Kumari, Sponsored Search Auctions: A Machine Learning Perspective, Prof. K. K. Bharadwaj, 01.03.2012

#### **School of Environmental Sciences**

- 8. Mr Pradip Bauri, Fine Wire Mesh and Spider Webs as Indicators of Airborne Particulates, Prof V K Jain, 08.04.2011
- 9. Mr Shashi Prabha, A Study of the Impact of Textile Effluent on Water Resources Before and After the Implementation of Conventional and Membrane Bioreactor Treatment Systems: Case Study of Noyyal River at Tirupur Industrial Area, Southern India, Prof A L Ramanathan, 08.04.2011
- 10. Ms Monika Mishra, Isolation and Molecular Characterization of Microorganism for Bioremediation and Detoxification of Lignocelluloses in Pulp and Paper Mill Effluent, Prof I S Thakur, 25.04.2011
- 11. Ms Vandana Gupta, Study of Methane Emission from Paddy Fields of Karnal: A GIS Based Approach, Dr Krishan Kumar, 06.09.2011
- 12. Mr Kaustuv Basu, Molecular Analysis of Single Nucleotide Polymorphism (SNP) of Hyaluronan Metabolic Genes and their Disease Association in Indian Population, Dr Ilora Ghosh & Prof Kasturi Datta & Dr Arijit Mukhopadhyay, 25.08.2011
- 13. Ms Shubhra Dutta, Functional Characterization of the Redox Signalling in Ectopically Expressing Hyaluronan Binding Protein 1 (HABP1) Fibroblast Cells, Dr Ilora Ghosh, 11.11.2011
- 14. Ms Kumari Rina, Assessment of Groundwater Resources in the Sabarmati Basin of Gujarat-A Remote Sensing and GIS Based Approach, Prof S Mukherjee, 02.12.2011
- 15. Mr Chander Kumar Singh, Groundwater Exploration and its Geochemical Assessment in Western Rajasthan: Computational Intelligence Approach for Remote Sensing, GIS and Geophysical Applications, Prof Saumitra Mukherjee, 15.11.2011
- 16. Mr Rakesh Khatri, Study on Functional Polymorphisms in Candidate Cytokine Genes and their Association with Air Borne Parthenium Induced Contact Dermatitis in Indian Patients, Dr Kasturi Mukhopadhyay, 25.11.2011
- 17. Mr Jagvir Singh, Study of Extreme Weather Events (2002-2003) Over India Using Atmospheric Global Analysis-Forecast System, Prof V K Jain & Dr Akhilesh Gupta (Co-Supervisor), 14.12.2011
- 18. Mr Narendra Kumar Sahoo, Responses of Phytoplankton Communities to Nutrient Enrichment and Macrophytes, Prof P S Khillare, 22.12.2011

- 19. Mr Vijay Veer, Neural Network Approach for Ground Water Modeling of Hindon Basin, Ghaziabad District, Uttar Pradesh, Prof S Mukherjee, 27.01.2012
- 20. Mr Deepak Kumar Choudhary, Litter Decomposition in Relation to Soil Fauna in Garhwal Himalaya, Prof K G Saxena, 06.02.2012
- 21. Mr Shibaji Baghar, Ecological Dimensions of Land Use/Cover in Kedarnath Wildlife Sanctuary, Garhwal Himalaya, Prof K G Saxena, 09.02.2012
- 22. Ms Puneeta Pandey, Urban Heat Island Formation and its Relationship with Aerosols in Atmospheric Environment of Delhi, Dr Krishan Kumar, 14.03.2012
- 23. Mr Kushagra, Distribution and Mobility of Geogenic Arsenic in Mid-Gangetic Alluvial Aquifers and their Removal Prospects of Nano-Materials: A Case Study of Buxar District of Bihar-India, Prof A L Ramanathan, 07.03.2012
- 24. Ms Paramita Saha, Role of Hyaluronan Binding Protein 1 (HABP1) in Signaling of Autophagic Regulation, Dr Ilora Ghosh, 19.03.2012
- 25. Mr Prabir Kumar Mukherjee, Identification of Geological Structures and their Control on the Ground Water Regime of Kachchh District, Gujarat, India, Prof Saumitra Mukherjee, 14.03.2012

#### **School of Life Sciences**

- 26. Mr Macmillan Nongkhlaw, Exploring the Enzymatic Mechanism of Active DNA-dependent ATPase A, A Member of SWI/SNF Family of Proteins, Dr Rohini Muthuswami, 08.04.2011
- 27. Mr Pardeep Kumar, Membrane-Linked Functions and Glucose Transporter (GLUT4) in Diabetic and Aging Female Rats: Effect of Trigonella Foenum-Graecum and Estradiol, Prof R K Kale, 19.04.2011
- Ms Mandavi Kumari, Role of Lung Epithelial Cells and Alveolar Macrophages in Eliciting Immune Response to BCG and LPS and the Modulatory Effect of Microfine Crystalline Silica Particles, Prof R K Saxena, 26.04.2011
- 29. Ms Sanwal Hina Bhuvan, Mutagenesis of a Major ABC Drug Transporter Cdr1p of Pathogenic Candida albicans, Prof Rajendra Prasad, 28.04.2011
- 30. Ms Jyothi Ramanathan, Functional Analysis of Interferon Regulatory Factor-1 (IRF-1) in Atherosclerosis, Prof P C Rath, 09.05.2011
- 31. Ms Somlata, Identification and Characterization of EhC2PK: A EhCaBP1Binding Protein, Prof Alok Bhattacharya, 21.06.2011
- 32. Mr Somnath Mukherjee, Studies on Retrotransposons, Dr Deepak Sharma & Prof K C Upadhyaya (Jt. Supervisor),19.09.2011
- 33. Ms Ekta Jindal, Biochemical and Molecular Analysis of Redox Signaling in Cardiac Myocytes under Adrenergic Stress, Prof S K Goswami, 12.10.2011
- 34. Ms Bhavna Chawla, Hypusine Biosynthetic Pathway as a Potential Drug Target in Leishmania Donovani, Prof R Madhubala, 29.11.2011
- 35. Mr Ravi Verma, Susceptibility Genes in Inflammatory Bowel Disease and their Association with Microflora, Dr Jaishree Paul, 28.11.2011
- 36. Mr Hemant Kumar, Expression, Purification and Characterization of a High Affinity Phosphate Transporter from Piriformospora indica, Dr Atul K Johri, 01.12.2011
- 37. Ms Shweta Aggarwal, Host Genetic Susceptibility to Leprosy-A Study of Anti-Inflammatory Cytokine Gene Polymorphism, Prof R N K Bamezai, 28.12.2011
- 38. Ms Guiliana Soraya Victoria, Investigating the Role of PIG-P in GPI Anchor Biosynthesis of Candida Albicans, Dr S S Komath, 31.10.2011
- 39. Mr Shiv Shanker Pandey, Role of VTE 5-1 and Protochlorophyllide Oxido Reductase C (PORC) in Chlorophyll Metabolism, Prof B C Tripathy, 24.02.2012
- 40. Ms Indrani Talukder, Functional Characterization of SG2NA Variants in Cell Proliferation and Differentiation, Prof S K Goswami, 06.03.2012

#### **School of Biotechnology**

- 41. Ms Kanchan Sinha, Role of Heat Shock Protein in Immunity against B. Anthracis Infection, Prof Rakesh Bhatnagar, 30.12.2011
- 42. Ms Parul Kulshreshtha, Development of Single Chain Antibody against Anthrax Toxins, Prof Rakesh Bhatnagar, 16.01.2012
- 43. Ms Anuradha, Study of Cellular Stress in Escherichia coli during the Production of Recombinant Proteins: Human Beta Interferon as a Model System, Prof K J Mukherjee, 21.02.2012
- 44. Mr Keshav Gopal, Evaluation of Recombinant Epsilon Toxin Mutants as Potential Vaccine Candidate against Clostridium perfringens, Prof Aparna Dixit, 19.03.2012

#### **School of Physical Sciences**

- 45. Mr Santosh Kumar, Jacobi Family of Random Matrix Ensembles: Eigenvalue Statistics and Applications, Dr Akhilesh Pandey, 04.07.2011
- 46. Mr Anil Kumar Singh, Study of Magnetoelectric Coupling in Novel Spin Frustrated Multiferroics, Dr Satyabrata Patnaik, 11.08.2011
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- 49. Mr Rakesh Kumar, Studies on Low-Dimensional Dimerized Quantum Antiferromagnets, Dr Brijesh Kumar, 29.12.2011
- 50. Mr Tripurari Sharan Tripathi, Electronic Transport and Magnetic Properties of Chromium Chalcogenide Spinels:  $CuCr_2X_4$  (X=S, Se, Te) and  $Cu_{1+x}Cr_2Te_4$  (x=0-1.0), Prof A K Rastogi, 30.12.2011
- 51. Mr Girish Chandra Tewari, Electronic Transport and Magnetic Properties of Layered Chromium Compounds: CuCrX<sub>2</sub> (X=S, Se), Prof Ashok Kumar Rastogi, 05.01.2012
- 52. Ms Divya Srivastava, Vibrational Spectra of Single-Component Solids: Evolution with Pressure, Prof Subir Kumar Sarkar, 23.01.2012
- 53. Mr Prabhat Kumar Jaiswal, Fluid Mixtures at Surfaces: Kinetics of Enrichment, Spinodal Decomposition and Dewetting, Prof Sanjay Puri, 23.01.2012
- 54. Ms Madhu Priya, Enhanced Correlations and Mixing in a Binary System, Prof Sankar Prasad Das, 25.01.2012
- 55. Ms Davuluri Srikala, Synthesis and Characterization of Magnetic Systems in Nanoscale, Dr Satyabrata Patnaik, 17.02.2012
- 56. Mr Pramod Kumar, Physics and Technology of Organic Molecule Based Thin Film Transistors, Prof Subhasis Ghosh, 21.03.2012
- 57. Ms Anuja Mehrotra, Density and Temperature Inhomogeneities in Granular Matter, Prof Sanjay Puri, 07.03.2012

#### **Special Centre for Sanskrit Studies**

- 58. Ms Anita Swami, Patanjala Yoga-Parampara Mein Jnanaprakriya Ka Swarupa (Katipaya Tikaon Ke Sandarbha Mein), Dr Ram Nath Jha, 07.07.2011
- 59. Mr Subash, Ontological Knowledgebase for Selected Verbs of Sanskrit and Bangla, Dr Girish Nath Jha, 17.02.2012
- 60. Mr Bhoopendra Singh Parnami, Vaisesikasutra Ki Panch Arvacin Sanskrit Tikaon Ka Samalochanatmak Adhyayana, Prof Shashi Prabha Kumar, 05.03.2012
- 61. Mr Yogesh Sharma, Santa Rasa: Adhara, Asvada, Darsana, Dr Rajnish Kumar Mishra, 14.03.2012
- 62. Mr Surjya Kamal Borah, Epistemology in the Principal Upanishads, Dr Ram Nath Jha, 05.03.2012

#### **Special Centre for Molecular Medicine**

- 63. Ms Shipra Shukla, Identification and Characterization of a Negative Regulator of Expression of CDR1 Gene Involved in Multidrug Resistance in Candida albicans, Prof Rajendra Prasad & Prof G Mukhopadhyay, 02.06.2011
- 64. Mr Atul Sharma, Helicobacter Pylori Single Stranded DNA Binding Protein (HpSSB): A Tool to Study DNA Replication in Slow Growing Pathogenic Bacteria, Dr Suman K Dhar, 30.01.2012
- 65. Mr Dhaneswar Prusty, Role of Apicoplast Targeted Topoisomerase(s) and Single Stranded DNA Binding Protein in Life Cycle of Malaria Parasite-Plasmodium falciparum, Dr Suman K Dhar, 31.01.2012
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#### **School of Computational and Integrative Sciences**

- 68. Ms Candida Vaz, Identification and Discovery of microRNAs and Deciphering their Role in Gene Regulatory Networks, Prof Alok Bhattacharya, 17.08.2011
- 69. Mr Vikram Singh, Coding and Noncoding Genes: Aspects of their Identification, Distribution and Regulation, Prof R Ramaswamy, 16.03.2012

#### Centre for the Study of Law and Governance

- 70. Mr Ray Uday Shanker Prasad, Dispute Settlement Process in the Telecommunications Sector in India-A Comparative Analysis, Prof Amita Singh, 03.05.2011
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- 73. Mr Vignesh S, Efficiency and Sustainability of Telecentres in Rural Areas: A Comparative Study of Community Multimedia Centres and Common Services Centres, Prof Amita Singh, 05.01.2012
- 74. Mr Venkata Narayanan S, "Quality Education for All": Is it a Myth or Reality in the Era of Economic Liberalisation? A Case Study of Elementary Schools in Chennai, Tamil Nadu, Prof Amita Singh, 31.01.2012
- 75. Mr Pradeep Kumar Nayak, The State, ICTs and Governance: A Comparative Study of the Computerisation of Land Records in Orissa and Karnataka, Prof Niraja Gopal Jayal, 30.03.2012

#### **School of Arts and Aesthetics**

76. Mr Thamotharampillai Sanathan, Modernity, Class Identity and the Visual Arts in Colonial Colombo, c.1815-1955, Dr Shukla Sawant, 12.10.2011

#### **School of International Studies**

- 77. Ms Anuja, Role of Tourism in Economic and Social Development of Thailand, Prof Ganganath Jha, 07.04.2011
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- 91. Mr Oun Ho Cho, Child Labour in India and Pakistan with Special Reference to Football Industry, Prof Partha S Ghosh, 26.05.2011

- 92. Mr Deepak Yadav, Russia-China Strategic Cooperation, 1991-2007, Dr Sanjay Kumar Pandey, 26.05.2011
- 93. Ms Poornima R, Problems of India's Energy Security Strategy with Special Reference to Bangladesh and Myanmar, Dr Sanjay Bhardwaj, 26.05.2011
- 94. Mr Biswajeet Saikia, Power Sector in North East India: Potentialities, Management and Cross Border Implications, Prof Mahendra P Lama, 18.03.2011
- 95. Ms Misu Kim, Foreign Investment in the Banking Sector: A Case Study of India, 1986-2007, Prof Manoj Pant, 06.06.2011
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- 103. Mr Reza Khalili, Comparative Analysis of Nuclear Policies: The Cases of India and Iran, 1983-2008, Prof Kamal Mitra Chenoy, 08.08.2011
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- 113. Ms Geetanjali Chopra, International Non-Governmental Organisations in Post-Conflict Peacebuilding: A Select Study, Prof C S R Murthy, 14.10.2011
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- 115. Ms Tina Kuriakose, Legal Analysis of International Policy Response to the Protection of Traditional Knowledge, Dr V G Hegde, 11.10.2011
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- 121. Ms Jyoti Tyagi, Status and Identity of Indian Diaspora in Madagascar and Seychelles, 1945-2005: A Comparative Study, Prof Ajay Kumar Dubey, 31.10.2011

- 122. Ms Poonam Keral, Geopolitics of Epidemics and Intervention: A Comparative Analysis of HIV/AIDS in South Africa and Uganda, Dr S S Deora, 18.11.2011
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- 124. Mr Vikash Kumar, Social Security for Persons with Disabilities: A Comparative Analysis of Bangladesh, India and Sri Lanka, Prof Partha S Ghosh, 18.11.2011
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- 128. Mr Pramod Kumar Mandal, European Parliament in EU's Institutional Architecture, Dr Bhaswati Sarkar, 28.11.2011
- 129. Ms Radhika Mohan, Pakistan's Energy Security: Domestic and Multilateral Policy Options, Prof Savita Pande, 28.11.2011
- 130. Mr S V Raveendran, Agriculture Policy of Saudi Arabia, 1970-2005, Prof Gulshan Dietl, 07.12.2011
- 131. Mr Ajish P Joy, Political Reforms in the Gulf Co-operation Council States, 1991-2005, Prof P R Kumaraswamy, 07.12.2011
- 132. Mr Sitakanta Mishra, Role of Political Parties in Formulating India's Nuclear Weapons Policy: A Comparative Study of Indian National Congress, Bharatiya Janata Party and Communist Party of India (Marxist), Prof Savita Pande, 07.12.2011
- 133. Mr Arun Kumar Tripathi, Biodiversity Management of Coral Reef Islands: A Comparative Study of Great Barrier Reef and Lakshadweep Islands, Dr S S Deora, 07.12.2011
- 134. Mr Manash Ranjan Mishra, Ethno-Geopolitics of Durand Line: The Pashtun Factor in Afghanistan-Pakistan Relations, Dr Ambrish Dhaka, 21.12.2011
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- 136. Mr Rajeshwar Singh, Geopolitical Analysis of Nation-Building in Reunified Countries: A Case Study of Vietnam, Dr S S Deora, 21.12.2011
- 137. Mr G Kheghoto Sema, A Comparative Study of Challenges to Monarchy and Democracy in Jordan and Morocco, Prof P R Kumaraswamy, 21.12.2011
- 138. Mr K B Standson Pou, Ethnic to Civic Nationalism: The Discourse and Strategies of Quabec Nationalism, Prof Abdul Nafey, 21.12.2011
- 139. Mr Jyoti Kant Bhoi, Russian Democracy: Political Pluralism and Role of Multiparty System in Russia (1991-2007), Prof Anuradha M Chenoy, 18.11.2011
- 140. Mr Vinayaraj V K, Self-Defence Strategies of Weak States Vis-à-vis Strong Neighbours: Case Studies of Bangladesh, Jordan and Finland, Prof Rajesh Rajagopalan, 06.01.2012
- 141. Mr Shakti Prasad Srichandan, Impact of Economic Migration on the EU Countries, 1992-2008: Case Studies of Spain, Germany and the UK, Prof Chintamani Mohapatra, 10.01.2012
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- 533. Mr. Binod Bihari Jena, "Trends and Determinants of Early Neonatal Mortality in India", Prof V.D. Vemuri, 19.03.2012
- 534. Ms. Prinyanka Khanna, "Half-wed Wives: The Dynamics of Royal Concubinage in Marwar (16<sup>th</sup>-18<sup>th</sup> Centuries)", Dr. Nandita P. Sahai, 19.03.2012
- 535. Ms. Upasona Khound, "Politics of Iconography: Statues and Memorials in Uttar Pradesh (1995-2011)", Dr. Asha Sarangi, 19.03.2012
- 536. Mr. Shirsat Pravinkumar Ruprao, "Colonial Regime and State-Led Modernity: An Examination of Health Discourse in Colonial India (1857-1943)", Dr. Ramila Bisht, 23.03.2012
- 537. Ms. Chhavi Sodhi, "The Fabric of Health: A Study of the FactorsAffecting The Health Status of Handloom Weavers of Varanasi", Prof. R.S. Srivastava, 02.04.2012

#### **School of Arts and Aesthtics**

- 538. Mr. Satish Kumar, "Swang' The Folk Performance of Haryana (An Analytical & Critical Study of the Sociological and Aesthetical Aspects)", Prof. H.S. Shiva Prakash, 08.04.2011
- 539. Ms. Sharmistha Saha, "Witnessing Movements: Indian People's Theatre Association (Central Squad) and Gender Politics", Pof. H. S. Shiva Prakash, 06.04.2011
- 540. Ms. Manpreet Kaur, "Puppet in the City: Aesthetic and Semiotic Experiments in New Spaces", Prof. H.S. Shiva Prakash, 26.04.2011
- 541. Ms. Khamdong Asen Newmai, "Changing Visual Culture: A Critical Study of the Colonial Visual & Textual Representation and Visual Culture of the Zeliangrong Nagas", Prof. Parul Dave Mukherji, 02.05.2011
- 542. Ms. Amita Rana, Ramman: Aesthetics, Text, Performance (A Study of a Ritual Performance Tradition of Garhwal), Prof. H.S. Shiva Prakash, 25.05.2011
- 543. Mr. Santosh Kumar Mallik, The Lesser Known Temples of Bhubaneswar: Inquiries in Art, Architecture and Patronage, Dr. Y.S. Alone, 27.05.2011

- 544. Ms. Shirlely Khoirom, The Bodhisattva Imagery in Mathura: From the Beginning to Approximately 3<sup>rd</sup> Century A.D., Dr. Y.S. Alone, 15.06.2011
- 545. Mr. Sumit Tripathi, "Notes on an Amorphous Cinema", Dr. Ira Bhaskar, 25.07.2011
- 546. Mr. Kartik Nair, "Ramsay Brothers: The Men, The Movies, The Memory", Dr. Ranjani Mazumdar, 25.07.2011
- 547. Ms. Yamini Kiran Telkar, "Trade, Travel and trans-Cultural Identities: A Study of Minor Antiquities in the Deccan 100 BCE-250CE", Dr. Naman Ahuja, 27.09.2011
- 548. Ms. Ayeeta Biswas, "Art-Writing in India: Since Cultural Turn and After", Prof. Parul Dave Mukherji, 16.11.2011
- 549. Ms. Therila Sangtam, "Representing the Cultural Identity of the Nagas: A Case Study on the Hornbill Festival of Nagaland", Dr. Bishnupriya Dutt, 05.12.2011
- 550. Ms. Smitha Gopal, "The Art of Self-Similarity in Indian Temple Architecture: A Study Based on Fractal Geometry", Dr. Naman Ahuja, 08.12.2011
- 551. Mr. A.P. Rajaram, "Kavadi Attam: Ritual Practice and Danced Identity", Dr. Bishnupriya Dutt, 08.02.2012
- 552. Ms. Pujya Ghosh, "From Subjective Representation to Representation of the Subject: Naxalbari, Event and the Performance of a Revolution", Dr. Bishnupriya Dutt, 24.02.2012
- 553. Ms. Gitanjali Bakalial, "The Illustrated Manuscripts of Bhagavad Purana: The Art of Medieval Assam", Dr. Kavita Singh, 13.02.2012
- 554. Ms. Vibhuti Sharma, "Embodied Rhythms: Understanding Music-Making in a Community with Sidi Drumming as a Case Study", Dr. Bishnupriya Dutt, 05.03.2012
- 555. Mr. Abhishek Anand, "Shilpashastras as a Genre in the Study of Indian Art", Prof. Parul Dave Mukherji, 30.03.2012
- 556. Mr. Monis Ahmad, "An Alternative Archive: India in the 1940s and 50s Through the P.C. Joshi Collection of Photographs", Prof. Parul Dave Mukherji, 21.03.2012

### **Special Centre for Sanaskrit Studies**

- 557. Mr. Mukesh Kumar Mishra, Computational Analysis of Sanskrit Homonyms: In the Context of Nanarthavarga of Amarakosa, Dr. Girish Nath Jha, 11.05.2011
- 558. Ms. Mamta Tripathi, Dhvani Siddhanta: Parampara Sandarbha evam Anuprayoga ('Nirala' Viracita Rama ki Saktipuja ke Visesa Sandarbha Mein), Dr. Rajnish Kumar Mishra, 13.05.2011
- 559. Mr. Mansingh Kanwat, Yajnavalkya Smrti ke Sandarbh mem Manavadhikara ki Sankalpana: Mitaksara ke Visesa Sandarbh mem, Dr. Santosh Kumar Shukla, 29.04.2011
- 560. Mr. Ravi Prakash Singh, Mantriparishad: Sidhant Avam Vyavahar (Arthashastra Avam Shukraniti Ke Sandarbha Mem), Dr. Hari Ram Mishra, 24.05.2011
- 561. Mr. Alok Tripathi, "Vakrokti: Theory and Application (A Study of Representative Poems of G.M. Hopkins", Dr. Hari Ram Mishra, 05.09.2011
- 562. Mr. Sanjeev Kumar, "Sanskrit Vanmaya Mein Kavi: Avadharana Evam Apeksayein", Dr. Rajnish Kumar Mishra, 12.10.2011
- 563. Ms. Priyanka Pandey, "Notion of Politics in Santi Parva of Mahabharata", Dr. Santosh Kumar Shukla, 03.02.2012
- 564. Ms. Anita Meena, "Prasastapadabhasya Mein Pratipadita Padarthasadhrmya-Vaidhrmya (Nyayakandali Evam Kiranavali Tikao Ke Aloka Mein)", Prof. Shashi Prabha Kumar, 13.02.2012
- 565. Ms. Devalina Saikia, "A Critique of the Cognitive Process in Nyaya Philosophy (with Sspecial Reference to the 1<sup>st</sup> Ahnika of Nyayamanjari)", Prof. Shashi Prabha Kumar, 13.02.2012
- 566. Mr. Bind Kumar, "Application of Vakrokti Theory in Macbeth", Dr. Hari Ram Mishra, 22.02.2012
- 567. Ms. Chanda Kumari, "Sri Madhusudana Ojha Krta Dasavadarahasyam Ka Samiksatmaka Adhyayana", Dr. Santosh Kumar Shukla, 23.02.2012
- 568. Ms. Nisha Rani, "Dravya: Svarupa Evam Bheda Nyayasiddhantamuktavali Evam Manameyodaya Ke Sandarbha Mem", Dr. Santosh Kumar Shukla, 23.02.2012
- 569. Mr. Ashok Kumar, "Slokavartika Ke Atmavada Ka Samiksatmaka Adhyayana", Dr. Santosh Kumar Shukla, 23.02.2012
- 570. Mr. Baldev Ram Khandoliyan, "Vanausadhivarga of Amarakosa: A Computational Study", Dr. Girish Nath Jha, 23.02.2012
- 571. Mr. Vishvesh, "Vaisesikasutresu Sabdarthavimarsah", Prof. Shashi Prabha Kumar, 22.02.2012

- 572. Mr. Paritosh Das, "Index Based Search for Brhadaranyaka Upanisad", Dr. Girish Nath Jha; & Dr. Srinwas Varakhedi, 29.02.2012
- 573. Mr. Babaloo Pal, "Kenopanisad Ka Darshanik Anushilan", Prof. Shashi Prabha Kumar, 22.02.2012
- 574. Mr. Rajneesh Kumar Pandey, "Online Indexing of Susruta Samhita", Dr. Girish Nath Jha, 29.02.2012
- 575. Mr. Kumar Nripendra Pathak, "Challenges in Sanskrit-Hindi Noun Phrase Mapping", Dr. Girish Nath Jha, 06.03.2012
- 576. Ms. Jay Saha , "Causative in Sanskrit", Dr. Hari Ram Mishra, 14.03.2012

#### Centre for the Study of Law & Governance

- 577. Ms. Chitra Bisht, "Understanding the Participation of Women in the Gram Panchayat: A Case Study in Uttarakhand", Dr. Jaivir Singh, 19.09.2011
- 578. Ms. Sangeeta Meena, "Child Marriages in India: Case Study of Selected Villages of Rajasthan", Prof. Amita Singh, 24.11.2011
- 579. Mr. Anil Kumar , "Citizens and the Citizen's Charter: A Study of Jhansi District Administration in Uttar Pradesh", Prof. Amita Singh, 05.12.2011
- 580. Ms. Priyamvada, "The Governance of Forests: A Study of Terai Belt of Uttar Pradesh", Dr. Amit Prakash, 07.12.2011
- 581. Ms. Rahila Sikandar, "Madarsa Education and its Role in the Advancement of Muslim Community- A Case Study of Uttar Pradesh", Prof. Amita Singh, 22.12.2011
- 582. Ms. Rapti Mishra, "State, Development and Violence: A Case Study of Maoism in Bihar", Dr. Amit Prakash, 12.01.2012
- 583. Md. Anisur Rahman, "Interpretation of Islamic Family Law in Colonial India: A Review of the Privy Council's Decisions", Dr. Pratiksha Baxi, 18.01.2012
- 584. Ms. Divya Mishra, "Interrogating Judicial Reforms: A Study of Offloading of Pending Cases in an Indian High Court", Prof. Amita Singh, 16.02.2012
- 585. Ms. Simi M. Sunny, "City Aesthetics, Urban Spectacles and the Tourist: Sociological Analysis of Commonwealth Games 2010", Dr. Pratiksha Baxi, 16.02.2012
- 586. Ms. Annie Vincent, "Unlearning Development' : MNREGA and the Right to Development", Dr. Amit Prakash, 16.02.2012
- 587. Ms. Sulila Anar, "Traditional and Modern Institutions of Local Governance in Nagaland", Prof. Niraja Gopal Jayal, 16.02.2012
- 588. Ms. O. Grace Ngullie, "State Development Initiatives for Women in Nagaland: A Case Study of Self Help Groups", Prof. Niraja Gopal Jayal, 15.03.2012
- 589. Ms. Naphisha Banroi Kharkongor, "Social and Political Borders of Citizenship: The Indo-Bangladesh Border in Meghalaya", Dr. Amit Prakash, 23.03.2012
- 590. Mr. Rahul N., "Law, Caste and Gender: A Study of the Scheduled Castes and Scheduled Tribes (Prevention of Atrocities) Act, 1989 in Tamil Nadu)", Dr. Pratiksha Baxi, 30.03.2012
- 591. Mr. Sharada Prasanna Rout, "Development-Induced Displacement: A Case Study of Mining Projects of Keonjhar District, Orissa", Prof. Niraja Gopal Jayal, 13.03.2012
- 592. Ms. Rukmani, "Decentralized Governance of Forest Resources: A Case Study of Uttarakhand", Prof. Niraja Gopal Jayal, 12.03.2012

#### Centre for Development Studies, Thiruvananthapuram

- 593. Ms. Neha Hui, "Market for Sex work : The Case of GB Road, New Delhi", Dr. Praveena Kodoth; & Dr. A.V. Jose, 16.08.2011
- 594. Mr. Valatheeswaran C, "Livelihood Strategies of Sri Lankan Refugees in Tamil Nadu", Prof. S. Irudaya Rajan; & Dr. A.V. Jose, 16.08.2011
- 595. Mr. Dilip Saikia, "Industrial Location Under Globalisation in India: Evidence from Unorganised Manufacturing Industries", Prof. K.J. Joseph;& Dr. Vinoj Abraham, 11.08.2011
- 596. Ms. Kalyany Sankar, "Socio-Economic Mobility of Slum Dwellers: A Case Study of Bartonhill Colony and Thekkumudu Slum in Thiruvananthapuram, Kerala", Dr. J. Devika; & Dr. U.S. Mishra, 05.09.2011
- 597. Ms. Aswathy P.R., "Empowerment of Antiretroviral Treatment (Art) Beneficiaries in Kerala, India", Prof. S. Irudaya Rajan; & Dr. J. Devika, 07.09.2011

- 598. Mr. Vachaspati Shukla, "Employment Diversification in Rural Uttar Pradesh: A Regional Analysis", Prof. K. Narayanan Nair:& Dr. Vinoj Abraham, 12.09.2011
- 599. Mr.Kiran Kumar Kakarlapudi, "Skill-Biased Technology and Wage Inequality: Evidence from India's Manufacturing Sector Under Globalisation", Prof. K.J. Joseph;& Dr. Vinoj Abraham, 19.09.2011
- 600. Ms. Subhashree Banerjee, "Climate Change and Agricultural Productivity :A Case Study of Maize in India", Prof. K. Pushpangadan; & Dr. Arindam Banerjee, 19.09.2011
- 601. Mr. Arun C. Adatte, "Food Grains Consumption in India: An Analysis of Trends and Patterns", Prof. K. Narayanan Nair; & Dr. Arindam Banerjee, 19.09.2011
- 602. Mr. Gareth James Wall, "Social Capital and the Sectoral System of Innovation : The Case of 'Vazhakkulam Pineapple' Kerala, South India", Prof. Sunil Mani & Dr. J. Devika, 12.10.2011
- 603. Mr. Jyotirmoy Sircar, "Employment Diversification in Ecologically Fragile Regions: The Case of the Sundarbans in West Bengal", Dr. Vinoj Abraham; & Dr. J. Devika, 11.11.2011
- 604. Mr. Shyno N.K, "Community Based Palliative Care in Northern Kerala: Quality and Sustainability in a Resource Poor Environment", Prof. S. Irudaya Rajan; & Prof. K. Navaneetham, 11.11.2011
- 605. Ms. Sanchita Mukherjee, "Crop Diversification and Risk; An Empirical Analysis of Indian States", Dr. Arindam Banerjee; & Dr. A.V. Jose, 11.11.2011
- 606. Ms. Soumya George, Trade, Market Structure and Wages in Indian Organised Manufacturing Industries", Prof. K. Pushpangadan & Dr. M. Parameswaran, 28.11.2011
- 607. Mr. Justine George, "Financing of India's Balance of Payments: Discernible Changes in Post Liberalisation Period", Prof. Sunil Mani & Dr. M. Parameswaran, 28.11.2011
- 608. Mr. Habeesh C., "Household Non-Food Consumption in India: Trends and Pattern", Dr. U.S. Mishra & Dr. Anup Kumar Bhandari, 01.12.2011
- 609. Mr. Gurpreet Singh , "The Processes and Determinants of Depeasantization in Punjab", Prof. K. Narayanan Nair & Dr. N. Vijayamohanan Pillai, 21.12.2011
- 610. Ms. Ashapurna Baruah , "Population Pressure and Agricultural Change Under Poor Public Investment in Infrastructure: The Case of Assam", Prof. D. Narayana & Dr. N. Vijayamohanan Pillai, 25.01.2012
- 611. Ms. Sushma Kindo, "Microcredit and Women's Empowerment: A Study in a Tribal District of Odisha", Dr. Praveena Kodoth & Dr. N. Vijayamohanan Pillai, 04.01.2012
- 612. Mr. Saravanakumar R., "Knowledge, Prevalence and Socio-Economic Impacts of HIV/AIDS in India", Prof. K. Navaneetham& Prof. S. Irudaya Rajan, 04.01.2012
- 613. Ms. Karamjit Kaur, "Analyzing the Proposed Land Acquisition Act: A law and Economics Perspective", Dr. V. Santhakumar & Dr. M. Parameswaran, 06.01.2012
- 614. Mr. Arun M., "Innovation in an Emerging Software Cluster", Prof. Sunil Mani;& Dr. M. Parameswaran, 02.03.2012
- 615. Ms. Namrata Thapa, "Growth, Structure and Labour Market Outcomes: A Study of India's Tea Plantation Sector", Prof. K.J. Joseph & Dr. Vinoj Abraham, 23.03.2012

# Master of Technology (M.TECH)

## **School of Computer & Systems Sciences**

- 1. Mr. Rajesh Kumar, Search Engine Selection and Result Merging in Metasearch, Dr. T.V. Vijay Kumar, 07.04.2011
- 2. Mr. Anil Kumar Giri, Distributed Query Optimization, Dr. T.V. Vijay Kumar, 07.04.2011
- 3. Ms. Amira Fahoud, "Performance Evaluation of Wimax for Multimedia Applications", Dr. D.K. Lobiyal, 11.11.2011
- 4. Ms. Vinti Agarwal, "Trust-Enhanced Recommendation of Friends in Web Based Social Networks Using Genetic Algorithms to Learn User Preferences", Prof. K.K. Bharadwaj, 28.11.2011
- 5. Ms. Shuchi Priya, "Parallel Gauss-Seidel Algorithm for Dense Linear Systems", Prof. C.P. Katti, 28.11.2011
- 6. Mr. Liu Yanping, "A Hybrid Artificial Potential Field-Genetic Algorithm Approach to Mobile Robot Path Planning in Unknown Environments", Prof. K.K. Bharadwaj, 28.12.2011
- 7. Ms. Shina Panicker, "Query Processing in Distributed Databases", Dr. T.V. Vijay Kumar, 07.01.2012
- 8. Mohammad Shahid, "A Model for resource Management for Computational Grid", Dr. Zahid Raza, 07.01.2012
- 9. Mr. Deepak Gupta, "Newton's Method for Implicit Lagrangian Twin Support Vector Regression (LTSVR)", Prof. S. Balasundaram, 07.01.2012
- 10. Md. Sirajul Hassan, "On the Solution of Dense Linear Systems Using Systolic Algorithm", Prof. C.P. Katti, 10.01.2012
- 11. Mr. Rajesh Singh Vats, "Adaptive Data Mining Approaches for Intrusion Detection", Prof. C.P. Katti, 07.01.2012
- 12. Mr. Dinesh Prasad Sahu, "Software Agent for Resource Allocation in Computational Mobile Grid", Dr. D.P. Vidyarthi, 25.01.2012
- 13. Ms. Nidhi, "Performance Evaluation of Vanet Using Realistic Vehicular Mobility", Dr. D.K. Lobiyal, 25.01.2012
- 14. Mr. Upasana Dohare, "Selfish Node Avoidance Routing Protocol in Ad Hoc Networks", Dr. D.K. Lobiyal, 25.01.2012
- 15. Mr. Vineet Kumar Dubey, "Spiking Neurons and Information Transmission", Prof. Karmeshu, 03.02.2012
- 16. Ms. Dinesh Singh, "Voice Over IP: Security Issues", Prof. C.P. Katti, 14.02.2012
- 17. Mr. Manish Kumar, "Security in Wireless Sensor Networks", Sh. Sushil Kumar, 10.01.2012
- 18. Mr. Nitin Kumar, "Illumination Invariant Methods for Face Recognition", Dr. R.K. Agrawal, 20.03.2012

### **School of Computational & Intigrative Sciences**

- 19. Ms. Sabeeha Hasnain, "Computational Modeling of Macromolecular Motion Inside Bacterial Cytoplasm", Dr. Pradipta Bandyopadhyay, 01.07.2011
- 20. Mr. Suraj Kumar, "Interfering Genotypic and Phenotypic Network: Application to Cancer", Prof. R. Ramaswamy, 17.10.2011
- 21. Mr. Sanjiv Kumar Dwivedi, "Classification of HIV Type-I Virus Using Profile Hidden Markov Model", Dr. Supratim Sengupta, 18.08.2011
- 22. Ms. Priyatama Pandey, "Deep Sequencing Based Expression analysis for Micro-RNA", Prof. Alok Bhattacharya; & Dr. Rashi Gupta, 28.07.2011
- 23. Mr. Teekam Singh, "Segmentation of Intima Media Thickness (IMT) and Lumen Diameter (LD) in Ultrasound Carotid Artery Images", Dr. A. Krishnamachari, 22.11.2011
- 24. Mr. Pradeep Kumar Singh, "Age Classification based on Facial Images", Dr. Lovekesh Vig, 02.12.2011
- 25. Mr. Pankaj Narang, "Development of an Interactive Web-accessibleWorkflow System for Biological Network Studies", Dr. Andrew Lynn, 25.11.2011
- 26. Mr. Abhilash Gangadharan, "Simulation and Perturbation Studies of the E.coli Metabolic Profile Using Flux Balance Analysis", Dr. Andrew Lynn, 25.11.2011

## Annexure II

## **Faculty Research Projects**

## School of Biotechnology

- **Mukherjee K.J**, "Scale up and optimization of a mammalian cell culture system for the over expression of therapeutic monoclonal antibodies with specific reference to Rituximab" Department of Science and Technology (DST), January, 2010 January, 2013, (ongoing, sponsored)
- **Mukherjee K.J,** "Design of an E.coli host for the over production of shikimic acid using Metabolic Engineering", Department of Biotechnology (DBT), June, 2011 June, 2014, (ongoing, sponsored)
- **Mukherjee K.J,** "From Molecules to systems: exploring the biological space using chemical and synthetic Biology", Department of Biotechnology (DBT), March, 2012 March, 2017, (ongoing, sponsored)
- **Bhatnagar R.,** "Rabies DNA Vaccine: Bioprocess optimization and immunogenicity studies", Department of Science and Technology; 2009 2012, (ongoing, sponsored)
- **Bhatnagar R.,** "Cloning expression and molecular characterization of alanine racemase of Bacillus anthracis", Indian Council of Medical Research; 2009 2012 (ongoing, sponsored)
- Bhatnagar R., "Development of transgenic *Brassica juncea* expressing normal and mutated edema factor gene for the development of vaccine against anthrax", Department of Science and Technology; 2010 – 2013, (ongoing, sponsored)
- **Bhatnagar R.,** "Identification and Characterization of immunodominant B Cell Epitopes that confer protective Immunity against Anthrax", Department of Biotechnology; 2011 2014 (ongoing, sponsored)
- Bhatnagar R., "Role of Heat Shock Proteins as Immunomodulators and their role in Immunity against Bacillus anthracis infection", Council of Scientific and Industrial Research; 2011 2014 (ongoing, sponsored)
- **Bhatnagar R.,** "Development of diagnostic kit for detection of Mycobacterium tuberculosis complex and Mycobacterial species", Department of Science and Technology; 2011 2014 (ongoing, sponsored)
- **Bhatnagar R.,** "Development of novel antibiotics of control infectious disease in pathogenic bacteria through induction of programmed cell death", Indian Council of medical Research; 2012 2015 (ongoing, sponsored)
- **Pati. U.,** "Role of pentanucleotide sequence (PNR) in triplex formation and apo(a) gene regulation", ICMR 2009 2012 (ongoing, sponsored)
- **Pati. U.,** "Role of Triplex DNA in transcriptional regulation of cardio-protective NOS2 gene", ICMR, 2012 2015 (ongoing, sponsored)
- **Dixit A.**, "Development of DNA based vaccine against Aeromonas spp. employing conserved outer membrane porin gene (*lamB*)". Department of Biotechnology, New Delhi, 2 June, 2008 1 June, 2012 (ongoing, sponsored)
- **Dixit A.,** "Indo-Norwegian platform on fish and shellfish vaccine development Sub project: Evaluation of major porins, ompC and ompR of Aeromonas hydrophila as potential vaccine candidates and identification and characterization of immune genes of Indian major carp, Labeo rohita". Department of Biotechnology, New Delhi and Norwegian Research Council, Oslo, Norway. 24 August, 2009 23 August, 2012 (ongoing, sponsored)
- **Dixit A.,** "Development of oral vaccine against Clostridium perfringens employing translational fusion of immunodominant epitopes of beta toxin with heat labile enterotoxin B" Department of Biotechnology, New Delhi. 26 February, 2010 25 February, 2013 (ongoing, sponsored)
- **Tiwari S**. "Effects of perturbation of pRb-Fzr1-Skp2 axis on mammalian cell cycle regulation" Submitted to DBT (2012) (ongoing, sponsored)
- **Rajala S.M.**, "Detection of somatic mutations on EGFR mutations and mutant EGFR driven in lung carcinoma" funded by ICMR, Delhi, November, 2009 October, 2012 (ongoing, sponsored)
- **Rajala S.M.,** "Identification of host cellular proteins interacting with influenza A viral nucleoprotein and their role in the regulation of viral replication" funded by ICMR, New Delhi, June, 2012 May, 2015 (ongoing, sponsored)

- Arya, R. "Expression and characterization of bifunctional enzyme UDP-N acetylglucosamine 2epimerase/N-acetylmannosamine kinase in Dictyostelium discoideum", Department of Science and Technology 2009-2012. Sanction order No. SR/FT/LS-146/2008, (ongoing sponsored)
- Arya R. Generation of antibodies against sialic acid biosynthetic key enzyme GNE (UDP-Nacetylglucosamine 2-epimerase/N-acetylmannosamine kinase. Animal Ethics Committee, JNU, (ongoing, sponsored)

#### **Ongoing Research Projects (Unsponsored):**

- **Dixit A.,** 'Differentiation inducing ability of M. Charantia'
- **Dixit A.,** To understand the regulation of c-jun gene expression in normal and proliferating liver cells. Purification and characterization of transcription factor(s) involved in regulating the expression of c-jun gene in regenerating rat liver and cloning of their genes
- Dixit A., 'Studies on Napin-like gene from M. Charantia'
- **Dixit A.,** 'Vaccine development against Aeromonas hydrophila'
- **Bhat R.,** 'Stability, folding, and aggregation studies of recombinant human α-, β-, and γ-sunucleins and the effect of metal ions and organic solutes on aggregation'
- **Bhat R.,** 'Prevention of amyloid fibril formation in proteins by using structure stabilizing compounds using hen white and human recombinant lysozyme'
- **Rajala S.M.,** 'Development of detection technique for circulating tumor cells in breast cancer', in collaboration with IIT Delhi

## School of Computational and Integrative Sciences

- **Ghosh I.,** Prediction of Toxicity: Participant in Open Tox project funded by the European Commission, 2008 2011
- **Ghosh I.**, Designing novel antimalarials using target based pharmacophore approach funded by the Ministry of Information Technology, Government of India, August, 2009 2012. **Co-PI: N.Subba Rao.**
- Ghosh I., "BINC Examination" DBT-Project sanctioned from November, 2010 2013
- Ghosh I., "Metabolomics", DBT sanctioned project from Oct 2011- 2016 with IIIT Hyderabad
- **Bandyopadhyay Pradipta,** DST project on "Development and application of a Biased Monte Carlo simulation technique: Exploring and characterizing potential energy surfaces of large molecules", 2010 2015
- Sengupta Supratim, "Development of computational methods for Riboswitch detection and prediction in genomic sequences and their functional validation", November, 2009 October, 2012

## **School of Environmental Sciences**

- Ramanathan A. L., "Monitoring studies of the Chotta Shigri Glacier, Himachal Pradesh" Department of Science and Technology, Govt. of India, 2009-2012.
- Ramanathan A. L., "Mass balance and hydro geochemical studies in Chotta Shigri Glacier (Phase-II)" Space Application Centre, ISRO, 2010-2013.
- Ramanathan A. L., "Quantification of Methane and Nitrous Oxide emission from Landfill areas of National Capital Region of Delhi and its impact on Global Climate Change" UGC project 2010-2013
- Ramanathan A. L., Targeting Safe aquifers in region with high arsenic in ground waters of India and the options for sustainable drinking water supply : 2010-2012 :VR-Sida Swedish Research Link Project with KTH, Sweden
- Srivastava Arun, Application of Aerosol Optical Depths (ground and satellite based) for the estimation of size segregated Suspended Particulate Matters (SPM) in Delhi, University Grant Commission, New Delhi, India (Final report submitted to the UGC ).

- Mohan Dinesh, A Major Research project entitled "Development of novel magnetic carbons for the remediation of micro pollutants from water" for a period of THREE YEARS, sanctioned by University Grant Commission, New Delhi (w.e.f 01.02.2010). (ongoing)
- **Ghosh Ilora,** DBT Project entitled "Antioxidant Detection by a Designer Cell Line: A prospective Biosensing System"
- **Ghosh Ilora,** CSIR Project entitled "A high throughput approach to investigate the molecular signal profile due to mitochondrial dysfunction in ectopically over expressing Hyaluronan Binding Protein 1 (HABP1) fibroblasts."
- **Thakur I. S.,** In vivo recruitment of bacteria and its characterization for removal of CO2 from thermal power plant-Department of Biotechnology, Govt. of India, New Delhi (in hand)
- Thakur I. S., Optimization of process parameters for decolourization and detoxification of medium scale pulp and paper mill effluent Department of Biotechnology, Government of India, New Delhi (completed in 2011)
- **Tripathi Jayant K.,** "Geochemistry and genesis of iron nodules in the Ganga plains and implications to the elemental dynamics, palaeoclimate and environment" Department of Science and Technology. (Undergoing)
- Tripathi Jayant K., A network of projects on "Integrated Transcriptomics, Proteomics, Metabolomics and lonomics approach to understand response of rice under salinity stress" (Coordinator: Ashwani Pareek), School of Life Sciences (PI for Proteomics and Metabolomics: Ashwani Pareek), School of Environmental Sciences (PI for Ionomics: Jayant K. Tripathi), of JNU and ICGEB New Delhi (PI for Transcriptomics: Snehlata Singla Pareek). Department of Biotechnology. (Undergoing)
- Saxena K. G., Relating indigenous natural resource management with global climate change adaptation and mitigation sponsored by United Nations University, Tokyo (2011- 2012)
- Saxena K. G., Tropical Soil Biology and Fertility South Asian Regional Network programme sponsored by TSBF-CIAT, Nairobi
- Saxena K. G., Cultural Landscapes: the Basis for Linking Biodiversity Conservation with Sustainable Development of North-Eastern Hill Region funded by UNESCO, New Delhi/MacArthur Foundation.
- Saxena K. G., Global Change and Mountain Ecosystems (GLOCHAMOST) sponsored by UNESCO, Paris
- Saxena K. G., On-the-Job Research Capacity Buillding for Sustainable Agriculture in Developing Countries supported by United Nations University Institute of Sustainability and Peace, Tokyo (2011-2012)
- Saxena K. G., Promoting sustainable land management in margional regions of Indian Himalaya and comparable regions of Asia funded by United Nations Univesity, Tokyo
- Saxena K. G., Global Climate Change in Mountain Sites (GLOCHAMOST) Coping Strategies for Mountain Biosphere Reserves: Nanda Devi Biosphere Reserve India funded by UNESCO, Paris/Delhi.
- **Mukhopadhyay K**, "Adaptive Response of Staphylococcus aureus to Host Cationic Antimicrobial Peptides". Department of Biotechnology 2009-2012.
- Kumar Krishan, Spatial and temporal dynamics of Urban Heat Island in Delhi and its implication for the air quality of Delhi, Investigators: Krishan Kumar (PI) & V K Jain (Co-PI), DST, 2009-2012,
- Kumar Krishan, An investigation of the role of hydrocarbons in ozone formation in ambient atmosphere of Delhi, Investigators: Krishan Kumar (Co-PI) & V K Jain (PI), UGC, 2011 2012
- **Raju N. J.,** UGC sponsored major research project entitled "Potential fluorosis problems in parts of Sonbhadra district, Uttar Pradesh: its geochemistry, genesis and health implications, during 2008-2011.
- **Khillare P.S** "Assessment of Ozone and VOCs in the ambient air of Delhi' (sponsored by UGC, 2011-13)
- **Bhattacharya Sudha**, "Post-transcriptional regulation of ribosomal RNA levels in Entamoeba histolytica" Department of Biotechnology, June 2009-2012
- **Bhattacharya Sudha**, "Genomic distribution of Entamoeba histolytica retrotransposons: Use in strain identification, ploidy measurement and gene expression", Indian Council of Medical Research, April 2010 2013
- **Bhattacharya Sudha**, "Regulation of rDNA transcription in Entamoeba invadens", DST, September, 2010 2013
- **Bhattacharya Sudha**, "Retrotransposons in Entamoeba histolytica: Genotypic variations, epidemiological tools and phenotypic consequences", (As part of the Centre of Excellence in Molecular Parasitology in JNU), DBT, 2011 2016
- **Mukherjee S.**, "Influence of Sun and other cosmic factors on environment of the space around Earth." Asian Office (JAPAN) of Aerospace Research and Development Unit (NASA) USA.2007-2012 (ongoing)

- Mukherjee S., Geomorphology and Lineament mapping. ISRO-GSI joint National Project 2010-2013, (ongoing)
- Mukherjee S., Ganga Basin Geomorphology. MOEF National Project 2010-2013 (ongoing)
- **Mukherjee S.**, Assessment of tectonic implications on groundwater in vicinity of Faridabad and Ghaziabad faults across river Yamuna.DST sponsored Project (2011-2013). (ongoing)
- Yadav S., "Chemical characterization of <2.5 micron size aerosols in N NW parts of India: sources and processes" Council of Scientific and Industrial Research 2011-2014
- Kulshrestha U. C., "Surya: fighting climate change" sponsored by RRC/UNEP, Bangkok.

## **School of International Studies**

## Centre for European Studies

- Jain, Rajendra K., "The European Union and Pakistan since 9/11", (ongoing)
- Jain, Rajendra K., "The European Union and South Asia", (ongoing)

## Centre for South, Central South East Asia and South West Pacific Studies

- Soni, Sharad K, Principal Investigator, "Documentation of Uzbek Literature in Three Libraries of North India (Khuda Baksh Library, Patna; Rampur Raza Library, Rampur; Aligarh Muslim University Library, Aligarh)". Ministry of External Affairs, 2011-12
- Soni, Sharad K, "Kazakh Diaspora in Mongolia". Central Asia Area Studies Programme of UGC. 2011-12

## Centre for International Trade and Development

- Mehra, Meeta, Research paper on "Fossil-Fuel Subsidies in India in the Context of G-20 Dialogue" commissioned by ICRIER, New Delhi for the Department of Economic Affairs, Ministry of Finance, Government of India
- Mehra, Meeta, Research on "Sustainable Cities Initiative" with Lawrence Berkeley Laboratory, University of Berkeley (with Maithili Iyer and Stephane de la Rue du Can)
- Mehra, Meeta, "Framework for Implementation of Climate Change Treaty through Self-enforcing Mechanisms" for ICRIER, New Delhi (with Saptarshi Mukherjee)
- Mehra, Meeta, "Optimal Public Policy in a Schumpeterian Model of Endogenous Growth with Environmental Pollution", under DAAD Fellowship at HTW, Berlin (ongoing)
- **Pant Manoj**, "India and the BRICS Countries: Issues of Trade and Technology", for CWTOS and Ministry of Commerce, Government. of India, August-December, 2011
- **Ray, Amit Shovon,** "Clinical Data, Bioequivalence and Generic Drugs: Analysis from India and Brazil", Collaborative Research project with Professor Fabienne Orsi, University of Marseille and Dr. Claudia Chamas, FIOCRUZ, Brazil sponsored by the ANRS (The French National Agency for Research on AIDS and Viral Hepatitis, Government of France), 2010-2013
- **Ray, Amit Shovon,** "Commercialisations of Inventions from Public Funded Research in India", sponsored by the Department of Science & Technology, Government of India, 2010-2012
- Sawhney Aparna, "Climate Change Technology Transfer and Trade in Renewable Power Equipment", research project, Institute of Environment and Sustainability, University of California, Los Angeles, US (completed July 2011)

### Centre for Russian and Central Asian Studies

- **Patnaik Ajay Kumar,** Marie Curie International Research Staff Exchange Scheme (IRSES), project on "Transition versus Transformation: Comparing Paths to Democratic Change in the Former USSR Using Case Study Based Evidence from Civil Society, International Aid and Domestic Politics", March 2012-2016, (undertaken)
- **Patnaik Ajay Kumar,** Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata, project on "Central Asia: Geopolitics, Security and Regional Stability", (undertaken)

## Center for South, Central, South East Asia and South West Pacific Studies

- **Dutta Mondira** "Understanding Gender Equality, 2012" sponsored by UN Women and published by the National Commission for Women, Government of India, New Delhi, March 2012
- **Dutta Mondira** "Situation of Human Trafficking in the Maldives A Rapid Assessment" sponsored by UN Women and Human Rights Commission, Maldives, May 2011
- **Ghosh Partha S.,** "India-Bangladesh Border Fence: The Financial, Political and Diplomatic Costs", Indian Council of Social Science Research, New Delhi, 2011-12

## Centre for African Studies

- Dubey, A. K., UGC Major Project on "Indian Diaspora in Africa"
- Malakar, S. N., "India-Sudan Agricultural Cooperation, Potential and Opportunities" sponsored by ICSSR, New Delhi (Duration: March 2009 2011)
- Malakar, S. N., ICSSR Major Project on "India-Sudan Agricultural Cooperation: Potential and Opportunities"

## Centre for West Asian Studies

• **Baidya Sima**, Completed a field trip research on "Civil Society in Oman", Gulf Studies Programme, March 2012

## School of Language, Literature and Culture Studies

### Centre of Arabic and African Studies

- Islahi Md. Aslam, "First war of independence 1857 as reflected in the Arabic writings of India", funded by the UGC, ongoing.
- Ahmad A. Basheer, "Arabic Translation of Thirkkural", funded by the Central Institute of Classical Tamil, Chennai, ongoing.
- Rahman Rizwanur, "Development of Indradhanush: Integrated WordNet of Punjabi, Gujarati, Urdu, Kashmiri, Konkani and Oriya", funded by the Department of Information Technologies, Govt. of India, 2010-2012, complete.

### Centre for English Studies

- Paranjape Makarand, Prasad G.J.V., and Bhaduri Saugata, Members, Core Group (along with Richard F. Allen & Suman Gupta, Open University, London; Harish Trivedi, Tapan K. Basu, & Subarno Chattarji, University of Delhi; and Shyamala Narayan & M. Asaduddin, Jamia Millia Islamia), "Networking Project: Prospects for English Studies in India", a research project funded by UK Arts and Humanities Research Council, administered at the Open University, London, 2011-2013, ongoing.
- **Prasad G.J.V.** and **Bhaduri Saugata**, Partners (along with Neelam Srivastava & Baidik Bhattacharya, Newcastle University; Francesca Orsini, SOAS; and Malashri Lal & Udaya Kumar, University of Delhi), "Research Network in Postcolonial Translation: The Case of South Asia", a research project funded by the Leverhulme Foundation, administered at Newcastle University, UK, 2008-2011, complete.
- **Prasad G.J.V.**, Co-ordinator, and **Bhaduri Saugata**, Deputy Co-ordinator, UGC Special Assistance Programme on "Indian and Cross-Cultural Approaches to Marginal Literatures", 2009-2014, ongoing.
- **Bhaduri Saugata**, Director, "Crisis of Identity: A Sociolinguistic Study of Tribals in India", a research project funded by Indian Council of Social Science Research, 2010-2013, ongoing

## Centre for French and Francophone Studies

- **Chaudhry Kiran**, "Hindi-French Dictionary" (20,000 entries), Hindi-UN Language Dictionary Project, sponsored by Central Hindi Directorate, Ministry of Human Resource Development, 2011-2013, ongoing.
- Cherian Sebastian T., Programme Coordinator, UGC Innovative Programme in Francophone Studies.

### Centre of German Studies

- Naithani Sadhana, Started in June 2011 a research project titled "Das Deutsche Dorf // The German Village".
- Naithani Sadhana, Resource Person and Advisor on Ethical Considerations in the research project "Multi-Lingual Education for School Children in Soura Tribal Community, Odisha", under the directorship of Dr. Minati Panda, ZHCES, SSS, JNU

## Centre of Indian Languages

- Nachimuthu K., "Hindi Translation of Classical Tamil Grammatical Text Tolkappiyam", in collaboration with Dr. H. Balasubramaniam, project sanctioned by the Central Institute of Classical Tamil, Chennai from November 2009, ongoing.
- Hussain Mazhar Mehdi, "Indian Languages Corpora Initiative (Urdu)", sponsored by DIT, Government of India, February, 2009 February, 2012, ongoing.
- Hussain Mazhar Mehdi, "WordNet for Urdu", sponsored by DIT, Govt. of India, February, 2010 February, 2012, ongoing.
- Singh Omprakash, "Acharya Mahaveer Prasad Dwivediyugin Alochana: Parampara aur Vikas ki Dishayen", funded by UGC.

#### Centre for Japanese, Korean and North East Asian Studies

- Raghavan Vyjayanti and Ravikesh, Joint Project Directors of one-semester course conducted for the students of Pusan University of Foreign Studies, on Hindi Language and Indian Culture, in Winter Semester, 2011 from January 18 to April 18, 2011, complete.
- **Ravikesh**, "Towards an Asian/Continental Poetics: A Study in Inter-Cultural Space with Special Reference to the Works of Han Yong-un and Rabindranath Tagore", funded by Academy of Korean Studies, Korea, ongoing.

### Centre for Linguistics

- Narang Vaishna, "Investigating common mechanisms for language perception and production in normal Hindi-English bilinguals", sponsored by DST as part of All India Initiative on Language and Cognition, titled Brain Organization in Normative Multilingualism, 2009-2013, ongoing.
- **Narang Vaishna**, "Development of UNICODE for major Indian Languages", a project of the Braille Council of India, National Institute for the Visually Handicapped, Dehradun, 2009-2012, ongoing.
- Narang Vaishna, with S. Senthil Kumaran, Rohit Saxena, and N.R. Jagannathan, AIIMS, New Delhi, "Neurocognitive changes associated with perception, spatial orientation, speech and language process in visually challenged subjects, using functional magnetic resonance imaging (FMRI)", sponsored by DST, 2010-2013, ongoing.

- Narang Vaishna, with Senthil Kumaran, Vinay Goyal and Madhuri Behari, AIIMS, "Neuromapping of functional deficits associated with Parkinsonian disorders", sponsored by DST, 2010-2013, ongoing.
- **Pandey Pramod**, with Caroline Fery, Instute of Linguistics, Johann Wilhelm Goethe-University, Frankfurtam-Main, project "Focus in Hindi and in Indian English", sponsored by INSA-DFG, July 2011-June 2012, ongoing.
- Pandey Pramod, with Shyamal Das Mandal, IIT Kharagpur, "Creation of Ideal Environments for Pronunciation Lexicon Standards in Bangla and Hindi", sponsored by Department of Information Technology, Govt of India, 2011-2012, complete.

### **Centre of Persian and Central Asian Studies**

- Ansari A.A., "Collection and compilation of Azhar Ali Azad Kakorwi's Persian and Urdu works", major research project sponsored by UGC, 2008-2012, ongoing.
- Ansari A.A., "Khayyam Studies in India", sponsored by NCPUL, MHRD, New Delhi 2011, complete
- Ansari A.A., "Hindi-Persian Dictionary", sponsored by NHD, MHRD, 2011-2013, ongoing.

### **Centre of Russian Studies**

• Mittal Manu, "India and Central Asia: Links and Interactions through the Ages", UGC sponsored Major Project, ongoing.

## **School of Life Sciences**

- Sarin N. B., EU-India partnership project on "Strengthening networking on Biomass research and biowaste conversion biotechnology for Europe India integration" funded by the Department of Biotechnology, Government of India from 1 January, 2012
- **Prasad Rajendra**, "Strategies to combat multidrug resistance (MDR) in human pathogenic Candida species", Indo-Swiss (DST) 2009 2012
- **Prasad Rajendra**, "MDR regulation in Candida albicans", Department of Science & Technology (DST), 2009 2012
- **Prasad Rajendra**, "Rational designing of peptide inhibitors of multidrug transporters of the human fungal pathogen Candida albicans", Department of Biotechnology (DBT), 2009 2013
- **Prasad Rajendra**, "Reinforcing the International Cooperation in FP7 FAFB Strengthening the Circle of Third Country NIPs", (BIO CIRCLE 2), European Commission, 2011 2013
- **Prasad Rajendra**, "Lipidomics of human pathogenic multidrug resistant Candida: Identification of lipids as antifungal targets", DBT, 2010 2013
- **Prasad Rajendra**, "Mutational Analyses of a Multidrug ABC Transporter to Dissect Mechanism of Drug Efflux", DBT, 2011 2014
- Prasad Rajendra, "Combating MDR in pathogenic yeast Candida albicans", DBT, 2011 2016
- **Bhattacharya Alok,** Program support on "Molecular Parasitology", DBT, Rs. 694.82 lakhs, (with seven other investigators), (2011 2016)
- Cowsik Sudha M., "Modulation of Structural and Molecular Aspects of Membrane Linked Function by Estrogen in Ageing Rat Brain". University Grant Commission, (2010 2012)
- **Bamezai R.N.K.,** Project entitled "High-throughput Genomic Analysis in Human Complex Disorders" funded by DBT, 2007 2012
- **Bamezai R.N.K.,** Project entitled "Origin and dispersion of Indo-Europeans: Phylogeography of R1a1 Ychromosomal lineage" funded by the Department of Science and Technology, 2009 - 2011
- **Bamezai R.N.K.,** National Centre of Applied Human Genetics funded by the University Grants Commission, 2002 2012
- Yadava P.K., Telomerase-associated gene expression in tumor cells. DST (2009 )
- **Yadava P.K.,** Molecular Studies on Piriformospora indica and Rhizobacteria. DBT (2010-) (in collaboration with Professor K. C. Upadhyaya and Prof Ajit Varma)

- Madhubala R., Life Science Research Board Grant (LSRB) from DRDO, A ubiquitin-conjugated-Leishmanial gene (ORFF) as a DNA vaccine against both antimonial-susceptible and resistant strains of L. Donovani, 2008 - 2011
- Madhubala R., Council of Scientific and Industrial Research project Targeting Hypusine pathway, a novel strategy for Leishmania treatment, 2008 2011
- Madhubala R., Global Infectious Diseases training grant from National Institute of Health, USA, Director: Ken Stuart, USA. Co-director: Marilyn Parsons, Indian, Director-R. Madhubala. This is a joint consortium of scientists from India and the University of Washington, Seattle. Please see the web site: http://www.sbri-india-gid.org/home/index.asp 2006-2011
- Madhubala R., Centre for Excellence in Molecular Parasitology, Department of Biotechnology, 2011 2016
- Madhubala R., Council of Scientific and Industrial Research 2012 2015 Characterization of Vitamin C biosynthesis pathway as a drug target in Leishmania donovani. Role: PI
- Madhubala R., Indo-Russian Project 2010 2012, Development of novel lead compounds for antimonial resistant Leishmania donovani. Role: PI
- Madhubala R., Department of Biotechnology (DBT) 2009 2012 Visceral leishmaniasis: Identification and validation of biomarkers for antimony susceptibility/ resistance in clinical isolates of Leishmania donovani. Role: PI
- Goswami S. K., Indo-US Joint Centre for cardiovascular Biology, Indo-US Science and Technology Forum, 2010 - 2012
- Goswami S. K., Analysis of intracellular redox dynamics in H9C2 cardiac myoblasts under adrenergic stress: a tool for studying the biology of heart failure. CSIR, 2011 2014
- Goswami S.K., The role of SG2NA in Tissue Differentiation during Chick Development, DST, 2011 2013
- Natarajan K., Natarajan, K. "Functional Dissection of Novel Transcriptional Regulatory Circuits in the Genome of Human Pathogenic Fungus Candida albicans", DBT, 2009 2012. Role: PI
- Natarajan K., Natarajan, K. "Examination of the Melanocyte-Keratinocyte Network in Vitiligo", Department of Biotechnology 2008 2011. Role: Co PI
- Natarajan K., Natarajan, K. "Dissecting the Role of Evolutionarily Conserved TAF9 Cofactor in Transcriptional Activation in Saccharomyces cerevisiae", Council of Scientific and Industrial Research 2008-2012. Role: PI
- Nandi Ashish Kumar, DBT Project 2008 2011: Functional analysis of rice MYC2 transcription factor family in rice
- Nandi Ashish Kumar, DBT Project 2011 2014: Chromatin remodeling for systemic acquired resistance in Arabidopsis
- Chakraborty Supriya, Molecular identification and characterization of virulence factors of Tomato leaf curl virus, DST, 2009 2012
- Chakraborty Supriya, Molecular mechanism of PTGS mediated host recovery associated with tomato leaf curl virus infection, DBT, 2011 2014
- Chakraborty Supriya, Engineering RNAi mediated broad-spectrum resistance against chilli begomoviruses, DBT, 2010 2013
- Chakraborty Supriya, Engineering broad-spectrum resistance against plant-infecting RNA viruses. CSIR, 2011 2014
- Saxena Ajay Kumar, Project Structure analysis of M. tuberculosis CarD protein: An essential regulator of rRNA transcription. PI-Ajay K. Saxena, 2011 2014, CSIR, India
- Saxena Ajay Kumar, Project-Structural and functional analysis of ERG Oncoprotein: Potential target to develop prostate cancer drug. PI-Ajay K. Saxena, DST, India 2010 2013
- Saxena Ajay Kumar, Project- Structural and functional analysis of M. tuberculosis DprE1 and DprE2 enzymes involved in cell wall synthesis Department of Biotechnology, 2012 2015
- Saran Shweta, Role of polyamines in regulating the development and differentiation program of Dictyostelium discoideum, March 2008 to March 2011, UGC
- Saran Shweta, Analysis of Caspase-Independent Cell Death Pathway: The Role of Transglutaminase Enzyme using Dictyostelium discoideum as a Model System
- Saran Shweta, An alternative approach towards the understanding of Huntington disease using Ddiscoideum as a model system, DBT, India July, 2011 – July, 2014
- Saran Shweta, Temporal and spatial expression pattern of TOR during growth and development of D. Discoideum CSIR, India, April, 2011 March, 2013
- Saran Shweta, Epigenetic control of cell differentiation with respect to histone deacety lase, DST, India, December, 2009 December, 2012

- Singh Rana Pratap, UGC Major Project (2012 2015), Title: "To study the role of protein glycosylation in cell-extracellular matrix interaction and cancer progression"
- Komath S.S., Studying the mechanism of de-N-acetylation by a novel de-N-acetylase from Entamoeba histolytica.CSIR (December 2010 December 2013)
- Komath S.S., Role of PIG-P in Candida albicans. UGC (April 2009 July 2012)
- Komath S.S., Investigating the role of PIG-H, an accessory protein in the first step of GPI anchor biosynthesis in Candida albicans. DBT (March 2009 November. 2012)
- **Gourinath S.,** Sponsoring Agency: Department of Bio Technology (Program support for Parasite biology) Title: Structural and functional characterization of crucial cysteine biosynthetic pathway proteins from E. histolytica and L. donavani. Duration: 2011 – 2016
- **Gourinath S.,** Sponsoring Agency: Department of Science and Technology, Title: Three dimensional structure determinations of calcium binding protein1 & 2 from Entamoeba histolytica and its complexes with cellular targets. Duration: 2008 2011
- Gourinath S., Sponsoring Agency: Department of BioTechnology, Title: Structural and functional characterization of calcium sensor proteins from Entamoeba histolytica, Duration: 2009 2012: Co-investigators: Prof. Alok Bhattacharya and Prof. K. V. R. Chary
- **Muthuswami Rohini**, "Understanding the regulation of miRNA levels at both transcriptional and posttranscriptional levels", DBT 2012 - 2015
- Johri Atul Kumar, Indo-University of California, San Francisco, USA, Exchange Program (2011 2013). Crystallization and Structural Studies of Membrane Proteins
- Panwar Sneh Lata, et al., "Exploring the link in Candida albicans" in DBT (2009 2012 June)
- Panwar Sneh Lata, et al "Role of Mitochondria in Candida albicans" in DBT (2008 2013)
- Jha Sushil Kumar. "The Role of Amygdalar Neurons and Glia in Sleep-dependent Consolidation of Cued Fear-Conditioned Memory in the Rat". DST 2011 2014
- Jha Sushil Kumar. "Role of sleep in consolidation of fear condition memory in the rat". CSIR 2008 2012 (completed)
- Jha Sushil Kumar. "Role of sleep in consolidation of conditioned reward memory in the rat". DBT 2008 2012 (completed)
- Tiku Ashu Bhan, Modulation of radiation induced hematopoietic injuries by Aloe vera UGC 2010 2013
- **Puri Niti,** Principal Investigator: "To determine the molecular mechanisms of regulated exocytosis of various inflammatory mediators from mast cells"; Department of Science and Technology; 2011 to 2014
- **Puri Niti,** Co- Investigator: with Prof. R. K. Saxena as Principal investigator on "To explore the relationship between the age of erythrocyte in blood circulation and their susceptibility to stress and anemia inducing agents"; Department of Science and Technology; 2009 to 2012
- **Puri Niti,** Co-Investigator: with Prof. R. K. Saxena as Principal investigator on "Interactions of carbon nano-particles and their chemically modified forms with cells and organs in vitro and in vivo"; Department of Science and Technology; 2009 2012
- **Paul Jaishree**, Diversity of Intestinal microbiota in Inflammatory Bowel Disease patients studied by Metagenomic approach". Council of Scientific and Industrial Research, New Delhi he project funded by CSIR (2010 2013) as PI
- **Paul Jaishree**, "Retrotransposons in Entamoeba histolytica: Genotypic variations, epidemiological tools and phenotypic consequences" The R&D project3 funded by DBT (2011 2016) is a part of the Center of Excellence in Parasitology research (COE program) as Co-PI
- **Paul Jaishree,** "Epidemiology of Amoebiasis in north East India". The project is under DBT's Twinning program for the North east India (2011 2014) as PI from JNU

## **School of Physical Sciences**

- **Ghoshal D.**, D. Choudhury (DU), and A.A. Sen (JMI), "Cosmology & astrophysics from higher dimensions", DST 2011 2013
- Shah Riddhi, SPS Library Grant in Mathematics: National Board for Higher Mathematics (NBHM), DAE, Government of India, 2009 2014
- Ghosh R, "Memory effects in three-level systems", Collaborative research project, Indo F rench Centre for the Promotion of Advanced Research (IFCPAR)/CEFIPRA under the Indian Department of Science and Technology and the French Ministry of Foreign Affairs, January, 2009 – February, 2012. Graded "Excellent" by the IFCPAR Council

- **Puri Sanjay,** Funding Agency: Department of Science and Technology, India; project title: "Multi-Scale Modeling of Domain Growth in Fluid Mixtures"; duration: March 2010 March 2013
- **Das Shankar Prasad,** BRNS Project on "Underlying phase transition in a supercooled liquid", 2012 2015. REF: NO 2011/37P/47/BRNS
- Sen S. "Study of Ultrafast Photophysical Processes in Bio- and Nano-materials: DNA, Lipids and Nanoparticles". Department of Science and Technology, 2008 2011
- Sen S. (one of the co-investigators) "Construction and multi-site commissioning of multiple fluorescence correlation spectrometers (FCS, a single molecule biophotonic tool)". Department of Information Technology 2009 2012
- Mohanty T., and Prof. Marika Schleberger, "Study of electronic and optical properties of graphene/metal oxide nanocomposites thin films for its application as transparent conductors" DST-DAAD project 2011 – 2013

## **School of Social Sciences**

### Centre for Economic Studies and Planning

- **Kumar Arun,** "The Role of Tax Havens: In Global Governance and Regulation; In the External Finance Equation for Economic Development", funded by Norway Government via their Research Council
- Rawal Vikas, UGC Project on "Socio-Economic Surveys in Selected villages in Rajasthan"

### **Centre for Historical Studies**

• Supriya Varma, Survey and excavation at Rohana Khurd, Archaeological Survey of India, 2011 – 2012

### Centre for Philosophy

• **Oinam Bhagat**, "Women in Traditional Worldviews and Institutional Practices: Aesthetic and Ethical Discourses in India's Northeast" sponsored by IGNCA, New Delhi

#### Centre for the Study of Regional Development

- **Bathla, S.** Crop Diversification through Contract Farming and Organized Retail Chains: Prospects for Higher Income and Employment, (jointly with R.K. Sharma) funded by University Grants Commission (UGC) under Major Projects.
- **Bathla, S.** Employment and Productivity Growth in Agro-processing Industry in India, funded by AARDO, New Delhi
- Das, B. Ageing: Regional Perspective, Major project sponsored by University Grants Commission.
- **Das, B.** Factors Influencing Choice of Destination by International Migrants, Indian Council for Social Science Research, New Delhi.
- **Das, D.** Conditions of the Aged Population in the New Regime of Demographic Transition: A Study of West Bengal, Indian Council for Social Science Research, New Delhi.
- **Das, D.** Urban Basic Amenities in the Slums of Kolkata: A Study on Socio-economic and Demographic Determinants
- **Dubey, A.** "Social Structure and Educational and Employment Achievements: A Study of Disparities across Different Social Groups in India", (with Veronica Pala) report submitted to the Indian Institute of Dalit Studies, New Delhi.
- **Dubey, A.** How Inclusive Growth been During 1993/94-2009/10: Concept, Measurement, Performance and Implications for 12<sup>th</sup> Plan Strategy, (with Thorat S.K.) submitted to UNDP, New Delhi.

- Kundu, A Changing Pattern of Food Consumption in Asia, FAO, Bangkok, Advising the Institute of Human Development, New Delhi.
- **Mishra, D.** Seasonal Migration, Poverty and Livelihoods Diversification in Rural Orissa, sponsored by Indian Council of Social Sciences Research, New Delhi.
- **Pani, P.** Scale Variant Geospatial Feature Mapping using Spatio- temporal Data in and around Parvati Valley, Himachal Pradesh, DTRL, DRDO, Ministry of Defence.
- **Punia, M.** Spatial Governance of Panchayati Raj Institutions: A case study of Churu and Jaipur Districts in Rajasthan, Indian Council of Social Sciences Research, New Delhi.
- **Punia, M.** Geovisualisation of Landscape and e-Learning Course, Department of Science and Technology, Government of India, New Delhi.
- **Punia, M.** Snow spectral properties and Regional climate--sponsored by Department of Science and Technology, Government of India, New Delhi.
- **Punia, M.** Subaltern Urbanization in India- French National Agency for the Research in Social Sciences.
- **Raju, S.** "Gender Atlas" (jointly with Dr. S. Sen and B. Das), funded by Department of Science and Technology, Government of India.
- Sen, S. "Gender Atlas" (jointly with Prof Saraswati Raju and B. Das), funded by Department of Science and Technology, Government of India.
- Sharma, M. C. Snow & Glaciers in Miyar Basin, Himachal Pradesh, Space Applications Centre, ISRO.
- Sinha, S School Education in Punjab, Punjab Govt Governance Reforms Commission, Chandigarh
- **Thorat, S. K.** Political Factors, Government Spending, Agricultural Growth and Poverty Linkages (jointly with Shenggen Fan), funded by International Food Policy Research Institute (IFPRI), Washington DC, USA.
- **Thorat, S. K.** Caste and Agriculture Performance: A Comparative of Schedule Caste, Schedule Tribe, OBC and Other farmers (jointly with Regina Birner) funded by International Food Policy Research Institute (IFPRI), Washington DC, USA.
- Thorat, S. K. National and International Best Inclusive Practises in Food Security Schemes, Public Education Institutions, Public Health Services (with Nidhi Sadana), UNICEF
- Thorat, S. K. Social Exclusion and Poverty Linkages in Rural Area: A Study of Seven Poorest States in India (with Nidhi Sadana and Rajendra Momgin), DFID, Delhi.
- Thorat, S. K. Minorities in India: Comparative Status with respect to Human Development (with Sobin George), DFID, Delhi.
- Thorat, S. K. Tribal in India: Human Development Status (with R. P. Mamgain and others), Ministry of Social Justice and Empowerment, Delhi.
- Zutshi, B. Status of Elementary Education in India sponsored by National Coalition for Education.
- **Zutshi, B.** Dynamics of Hybrid Cottonseed Farming and Child Labour Participation in India, sponsored by Global March against Child Labour.
- Sinha Sachidanand, Socio- Economic Transformation of the Tribes: A Case Study of Adiyans in Kerala.
- Kidwai Atiya Habeeb, Equal Opportunities, Disparate Participation: The Social Divide in Education and Occupational Involvement in India

### Centre for the Study of Social Systems

- **Oommen T.K.,** Working on `Towards Social Inclusion in Independent India: Conceptual Ambiguities and Policy Deficits'
- Haq E., School Revisited: A Sociological Study.
- Pathak Avijit, On Sociology of Religion
- Visvanathan Susan, Urbanism and the sociology of small towns in relationship to agricultural hinterland.
- Singh Renuka, Cross Cultural Marriage
- Sharma Amit K., Role of Temples in Indian Society (Self Sponsored)
- Kumar Vivek, UGC-DAAD project on 'Under Class in Germany and Dalits in India' with Prof. Rehbein Boike, Berlin University, Germany. Project was passed in June 2011.
- Mehrotra Nilika, Disability Rights, Exclusion and Identity formation
- Mehrotra Nilika, Methodological Challenges in Disability Studies
- Sujatha V., "Sociology of health and medicine. New perspectives" Project, CAS funding 25,000 for field work

- **Naraindas Harish,** with the University of Heidelberg, Cluster of Excellence, Asia and Europe in a Global Context, Project C3: 'Asymmetrical Translations: Mind and Body in Indian and European Medicine', 2009-12.
- Naraindas Harish, with the FIP, Pondicherry, and CERMES/INSERM/EHESS, Paris, 'PHARMASUD: Local knowledge, market construction and globalization: two regimes of pharmaceutical innovation in the South (India vs. Brazil)', 2010-12.
- Naraindas Harish, with the University of Warwick on 'Science, Technology and Medicine. The Problem of Poverty, 1930-2000', 2010-12.
- Akoijam A. Bimol, AFSPA: A Study in Military and Democracy
- Srinivas G., Cultural Economy of Satellite Castes in Andhra Pradesh
- Srinivas G., Traditional Art Forms and Protests and Movements

### Centre for Social Medicine and Community Health

• Baru Rama V., Poverty, Social Exclusion and Health of School going Children: Case Study of an Urban Slum in South Delhi.

## **Centre for Political Studies**

• Ali Amir, In the Lanes of Jamia Nagar.

## Women's Studies Programme

- Arunima, G., Library work related to the project 'Gender and Sacred Geographies: A Study of Religion in Kerala' continued through the year; archival work towards this project will be conducted over the summer.
- Arunima, G., A collaborative project with the Institute of Gender and Women's Studies, American University at Cairo, was conducted through the year. An intensive ten day workshop was organized along with the American University at Cairo, in Kerala, where matters regarding publication and dissemination of the project results was discussed. Currently work is underway on producing a set of three volumes that reflect the areas under scrutiny (women's studies and disciplinarity; labour; and violence), June, 2010

### Zakir Hussain Centre for Educational Studies

- Khadria Binod, "Migration, Scientific Diasporas and Development Impact of Return Migration on India", Swiss Network for International Studies (SNIS) funded project, in collaboration with Ecole Polytechnique Federale de Lausanne (EPFL), Lausanne and Institute for Development Studies Kolkata (IDSK), Kolkata, 2011 – 2012
- Khadria Binod, Country Profiles on Migration India, International Organisation for Migration (IOM), 2011
- Khadria Binod, Feasibility of Circular Migration, International Organisation for Migration (IOM), 2011
- Nambissan Geetha B., Participating in collaborative research study on Comparative Inquiry into Post RtE School Scenario in India: Survey of Schools (Institutional Quality, Teachers and Parent), led by faculty of Tata Institute of Social Sciences (TISS), Mumbai, 2010 – 2012
- **Panda Minati,** 3 years Research Project, Mother Tongue Based Multilingual Education in India: A Longitudinal Study in Andhra Pradesh and Orissa. (Funded by NCERT, New Delhi) (Continuing).
- Panda Minati, Director of the 2year (2010-2013) Research Project on MLE Plus: Breaking the Language and Culture Barrier in Multilingual Education of Tribal Children in Orissa. (Funded by Bernard van Leer Foundation, The Netherlands) (Continuing)
- Panda Minati, Director of the 2 year Research Project, National Multilingual Education Resource Consortium (NMRC), JNU, 2010-2013 (Funded by UNICEF, India) (Continuing)
- Chattopadhyay Saumen, Involved in a project on 'Sustainability of the Education System in the Context of Globalisation' (title tentative) in collaboration with Dr. R.N. Mukhopadhyay, of Department of

Economics, Calcutta University under their DRS, UGC Programme 2007-2012 and contributed a paper Saumen Chattopadhyay and Rabindra Nath Mukhopadhyay "Embracing the Global Knowledge Economy: Challenges before Indian Higher Education", (as a part of the DRS programme of Department of Economics, University of Calcutta.

• Mishra Arvind Kumar, Perception of Social Exclusion through the Lens of Student Politics: A Social Psycholigical Study.

### International Research Collaboration:

- **Panda Minati,** Director of the Western-JNU collaboration (Western University, Ontario, Canada and Jawalarlal Nehru University, Delhi) on "Mother Tongue based Multilingual Education".
- **Panda Minati,** Collaborative Research with Eklavya, Bhopal and Linguistics Departments of Hamburg University and Delhi University on "Developing Critically Aware Multilingual and Multicultural Education through a Collaborative Urban School and Community based Language Program and a Children's Magazine in Bhopal".
- **Panda Minati,** Collaboration with Prof. Kathleen Huge from Australia and Prof. Ramakant Agnihotri from Delhi University.

### North-East India Studies Programme

- **Tiplut Nongbri**, "Country Technical Paper on Indigenous Peoples Issues in India", for Asia Indigenous Peoples Pact and International Fund for Agricultural Development'. Draft report completed and submitted to AIPP in December, 2011
- **Tiplut Nongbri**, "The Other in the City" NEISP Project, (Current Research Projects)

### Group of Adult Education

- Shah S.Y., Teaching Reading through Film Songs: An Action Research Project sponsored by the International Reading Association, USA, 2011.
- Shah S.Y., Achievement of Two Decades of National Literacy Mission, project sponsored by the National Literacy Mission, 2011-2012 (ongoing)
- Paul M.C., Research Study was undertaken "Focused Group Study" to understand the impact of the Consumer Education programmes as well as relevance of them in future that may benefit the slum women.
- **Paul M.C.**, Research project on "Consumer Redressal system: problems, challenges and Opportunities" sponsored by Ministry of Consumer affairs, Government of India, New Delhi. (Ongoing)
- **Kejariwal S.K.**, "Zero Female Tribal Literacy: A Study of selected villages of Madhya Pradesh" (Self-funded)
- Kumar Ajay, Submitted & awarded one UK-India (DST) collaborative project titled, Rural-Hybrid Energy Enterprise Systems (RHEES)' in August 2011 worth Sterling Pounds 4 million (JNU share about Rs. 54 lakh). Duration of the project is of three years, and the project in principle has been awarded to us by the DST (GOI) but likely to be operational by December end 2012

## Centre for the Study of Law and Governance

- Jayal, Niraja Gopal. Co-Director of Asian hub for the Princeton University project on "State-Building in the Developing World". (2009-12)
- Singh, Amita, 'Empirical Study of Internet in City Governance: Comparative Study of 3 Metropolitan Cities', Funding Agency: National Internet Exchange of India-DIT, Government of India.
- Singh, Amita, NAPSIPAG (Network of Asia Pacific Schools and Institutes of Public Administration and Governance): Study of Cross Country Governance Initiatives in the context of achieving MDG targets. Collaborative project of five main Governance Institutes in South Asia. Country based funding for each initiative.
- Prakash, Amit The Role of Governance in the Resolution of Socioeconomic and Political Conflict in India

and Europe (CORE) funded by the European Commission - 2011-14.

- **Prakash, Amit** Commissioned by the Indian Council for Social Science Research, New Delhi to contribute to the 6th round of ICSSR Research Survey and Explorations in Political Science on the thematic volume titled 'India and World 2010-11'.
- **Prakash, Amit** Invited by the Institute for Research in India and International Studies (IRIIS), Gurgaon to participate on a project titled 'Perception Survey of Media Impact on the Kashmiri Youth' commissioned by the Ministry of Home Affairs, Government of India 2010-11.

## **Special Centre for Molecular Medicine**

- Dhar S.K. "Control of DNA replication initiation and cell cycle regulation in two important human pathogens: Plasmodium falciparum and Helicobacter pylori" by the Department of Science and Technology (DST) under its "Swarnajayanti Fellowship" scheme in Biological Sciences. (2009 2014)
- Dhar S.K. "Signalling in Malaria Parasites: MALSIG". The European Commission, (2009 2012)
- Dhar S.K. "Programme Support on Molecular Parasitology" to work on the project entitled "Characterization of DNA replication and non-replication function of two putative homologues of Plasmodium falciparum Origin Recognition Complex". Department of Biotechnology (DBT) (2011 – 2016).
- Dhar S.K. National Biosciences Award to work on project entitled "Functional characterization of unique bacterial gyrase in the malaria parasite Plasmodium falciparum with codon optimization and screening some novel gyrase inhitors" (DBT) (2011 – 2014).
- Aijaz S. "A study on the mechanisms of paracellular permeability by the tight junction protein, occludin". (DBT), (2009 – 2012).
- **Tyagi R.K.** "Studies to decipher the functional implications of nuclear receptors docking onto the mitotic chromatin" Council of Scientific and Industrial Research (CSIR), (2010 2013).
- Tyagi R.K. "Generation of monoclonal antibodies against a nuclear receptor 'Pregnane & Xenobiotic Receptor' for utility as immunological and diagnostic tool", University Grants Commission (UGC) (2012 – 2015)
- Mukhopadhyay C.K. "Studies on regulation of mammalian iron transporter transferrin receptor by catecholamines". (CSIR), (2011 2013).
- **Mukhopadhyay C.K**. "Studies on the mechanism of activation of hypoxia-inducible factor-1 in Leishmania donovani infected macrophages and its role on intracellular growth of the parasite" (DBT) (2011 2013).
- **Mukhopadhyay C.K**. "Programme Support on Molecular Parasitology" to work on the project entitled "Studies on molecular mechanisms by which intracellular Leishmania donovani subverts iron pool of host macrophage for its survival advantage" (DBT) (2011 2015).
- Mukhopadhyay C.K. "Role of Brain Ferroxidases in AD and sCJD Pathogenesis" in US-India Bilateral Brain Research Collaborative Partnerships (US–India BRCP) (R21). (DBT) (2012 2013)
- Mukhopadhyay C.K. "Role and regulation of ceruloplasmin in glial cells in response to norepinephrine" (DBT) (2012 2014)

## **Special Centre for Sanskrit Studies**

- Jha, R.N., working on a Project on "Towards an Asian/Continental Poetics: A Study in Inter-Cultural Space with Special Reference to the Works of Han Yong-un & Rabindranath Tagore" funded by Academy of Korean Studies, Korea as a Co-investigator since 01.01.2011 for two years.
- **Girish.Nath Jha**, got a new project titled "Shallow Parser Tools (SP Tools) for Indian Languages- Maithili", funded by Under the Technology Development for Indian Languages (TDIL) program by the Ministry of Communications and Information Technology (MCIT) as a Consortium Member since 19 March, 2012 for 33 months.

## Annexure III

Linkages Developed with National/International, Academic/Research Bodies (01.04.2011 – 31.03.2012)

## Agreement of Cooperation (AOCs) singed between JNU and other Universities

- 1. M.V. Lomonosov Moscow State University, Russia
- 2. Daito Bunka University, Japan Urdu & Hindi
- 3. The Yunus Emre Institute, Turkey
- 4. State Institute for Islamic Studies (STAIN), Salatiga, Indonesia
- 5. Latin American School of Social Sciences of FLACSO, Argentina
- 6. The American University in Cairo, Egypt
- 7. Lanzhou University, China
- 8. University of College Cork, Ireland
- 9. University of Cincinnati, Ohio, USA
- 10. University of Tsukuba, Japan
- 11. University of of Adelaide, South Australia, Australia
- 12. Tajik State University of Law, Business and Politics, Khujand, Tajikistan

## Memorandum of Understanding (MOUs) signed between JNU and other Universities

- 1. King's College London, University of London
- 2. The University of Melbourne, Australia
- 3. Universidad Del Norte Paraguay
- 4. Queen's University, Belfast, United Kingdom (UK)
- 5. The University of Warsaw, Poland
- 6. Erasmus University of Rotterdam, Netherland
- 7. Belarusian State University, Minsk
- 8. The University of Sydney, Australia
- 9. Mokpo National University
- 10. University of Cape Coast Ghana, West Africa
- 11. The "Turcology Project", Yunus Emre Institute, Turkey
- 12. University of Latvia, Raga, Latvia
- 13. Erciyes University Turkey
- 14. University of South Australia, Adelaide, Australia
- 15. Victoria University of Wellington, New Zealand
- 16. National Tsing Hua University, Taiwan
- 17. University of Ghana, Accra City, Ghana
- 18. Leiden University, Netherlands and IBIES
- 19. University of Technology, Sydney
- 20. Eberhard Karls Universitat Tubingen, German
- 21. Ural Federal University, Russia
- 22. Tajik National University, Dushanbe, Tajikistan
- 23. Aarhus University and Partner Universities in the IBIES Consortium, Erasmus Mundus Action 2 Partnership

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