



जवाहरलाल नेहरू विश्वविद्यालय  
JAWAHARLAL NEHRU UNIVERSITY  
NEW DELHI-110067

INTERNAL QUALITY ASSURANCE CELL

PROF. MANOJ PANT  
DIRECTOR

29<sup>th</sup> January, 2015

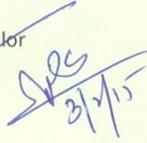
Dear Sir,

With reference to Annual Quality Assurance Report (AQAR) of JNU for the year 2012-13, to be prepared by IQA Cell as per the UGC Guidelines, we are forwarding the draft of AQAR. The AQAR is prepared on the basis of feedback received from the School/Centre and Annual Report. VC is requested to have a look on it and provide your valuable suggestions and comments for the same.

Thanking You,

  
Manoj Pant

Vice-Chancellor

  
21/1/15

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डायरी नं./Dy. No. 21/1/15  
दिनांक/Date. 21/1/15



# **Jawaharlal Nehru University**

## **Annual Quality Assurance Report (AQAR)**

(1<sup>st</sup> April 2012 to March 31<sup>st</sup> 2013)

**Internal Quality Assurance Cell (IQAC), JNU**



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## **INTRODUCTION ABOUT UNIVERSITY**

The Jawaharlal Nehru University was established in 1966 under the JNU Act, 1966. It was named after Jawaharlal Nehru, India's first Prime Minister and was founded by Smt. Indira Gandhi the then Prime Minister of India. As a further mark of respect, the University was formally inaugurated by the late Sh. V. V. Giri, the then President of India, on the birthday of Panditji on 14 November 1969. The uniqueness of JNU is evident from its basic philosophy, policies and programmes which are spelt out and embodied in the University Act.

The University is an institution for post-graduate studies, research and teaching with students approximately **7677** (seven thousand six hundred and seventy seven) and faculty members nearly **478** (four hundred and seventy eight).

The University has under-graduate 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 special 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 400 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 (AIRF) 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.

## **ADDITIONAL SERVICES PROVIDED BY UNIVERSITY**

### **THE ACADEMIC STAFF COLLEGE (ASC)**

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)**

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 (IQAC)**

In pursuance of the National Action Plan of the National Assessment and Accreditation Council (NAAC), Bangalore, for performance evaluation, assessment and accreditation and quality up-gradation 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 ten other members. The Committee meets periodically to assess the system of promotion and suggest ways to improve teaching and research activities.

## **SECTION A: PLAN OF ACTION BY IQAC**

### **Plan of Action Chalked out by IQAC in the Beginning of the Year (2012-13) Towards Quality Enhancement**

1. IQAC is initiating the process to accommodate changes to be made in form filled by faculty members under Career Advancement Scheme for promotion according to 2nd amendment in UGC regulations.
2. 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.
3. IQAC is planning to develop a simple and efficient method to be adopted for converting Grade points into percentage.

## SECTION B: 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 2012 to 31 March, 2013:

### 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 No. 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):** 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 inter-disciplinary 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 learning, 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 (CSR D)
- 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.

### **SPECIAL CENTRES:**

#### **(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 socio-legal 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 rigour 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.

### **(SCNS)**

**SPECIAL CENTRE FOR NANOSCIENCE (2010):** 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 Nanoscience and technology. However, to establish synergy, the Special Centre for Nanoscience was set up in JNU during the year 2010 as a fully supported program of UGC under the XIth Five Year Plan.

The Center will eventually offer special topic courses in the area of Nanoscience. A Ph.D. program is envisaged in future.

### **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:

#### **Defence 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
- Indian Naval Academy, Azhimala, Kerala

#### **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
- Inter-University Centre for Astronomy and Astrophysics, Pune

## **FACULTY**

The JNU faculty numbers nearly 478 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 (as on 31.3.2013) - 478
- Male - 324 / Female - 154
- Professor – 222 / Associate Professor - 108 / Assistant Professor - 148
- Professor Emeritus – 19 / Honorary Professors – 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. The complete list of research projects is placed at **Appendix I**.

During 2012 – 2013 their combined output amounted to the following:

- Books: 101
- Chapters in books: 252
- Papers/Articles in Journals: 560
- Participation in Seminars/Conferences/Workshops: 1305
- Lectures delivered (Outside JNU): 842
- Research Projects: 342

### **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 05 disciplines, Master's programme in 24 disciplines; and under-graduate courses (in both I and II year) in 09 foreign languages. In addition, it also offered Certificate, Diploma and Advanced Diploma courses in various languages.

## 2. Innovations in Curricular Design & Transaction:

All the courses offered to the students are updated from time to time at every School/Centre. Faculty members in JNU design new courses to be added to curriculum with the permission of Chairperson and Dean respectively.

- **School of Social Sciences (SSS) – (CWS)** – Reading courses are intensive courses structured on 12-14 themes. Students are required to provide write-ups for each reading, in addition to class presentations and term papers. Writing workshops have been introduced in courses for the students writing their term paper.

## 3. Inter-Disciplinary Programmes Started:

- **School of Social Sciences (SSS) – (CWS)** – The M.Phil. programme is designed to provide an earlier entry point for research students who can be trained in research methodologies and theoretical orientations; it will also widen the reach of the CWS as is mandated in the UGC guidelines and endorsed by the Committees.

## 4. Examination Reforms Implemented:

- **School of International Studies (SIS) – (CCUS&LAS)** – The Centre introduced oral presentation of term paper by the students for various courses.
- **School of Language, Literature and Culture Studies (SLL&CS) – (CFFS)** – Follow the method of continuous student assessment in both full time and optional courses. The success rate of students is close to 100% and the drop-outs rate is insignificant. **(CGS)** – The Centre has always evaluated student performance at various levels and also taken various aspects into consideration while evaluating. Apart from end semester exam there are home assignments, term papers, power point presentations. **(CAAS)** – 100%
- **School of Social Sciences (SSS) – (CSSP)** - The CSSP has only M. Phil/Ph.D courses. Hence for most of the subjects we have term paper and class participation as an evaluation tool.
- **Centre for the Study of Law and Governance (CSLG)** – Innovative modes of examinations used by respective course teachers as per the requirement of the course. Open book examination used in some courses.

## 5. Candidates Qualified (NET/SLET/GATE etc.):

65

## 6. Initiative towards Faculty Development Programme:

- **School of International Studies (SIS) – (CCUS&LAS)** – Wherever necessary Centre faculty have undergone Refresher and Orientation Programme of the UGC conducted by Academic Staff College.
- **School of Language, Literature and Culture Studies (SLL&CS) – (CCSEAS)** – Orientation course attended by Faculty Member Mr. Rakesh Kumar. **(CGS)** – Teachers initiated in use of equipment in the language laboratory complex – smart boards, multi media resources etc. **(CAAS)** – Faculty members regularly take part in orientation/refresher courses/seminars/conferences. **(CRS)** – Workshops have been organized in the Centre and faculty members have been deputed for improvement programme. **(CSPILAS)** – Workshops have been organized in the Centre and faculty members have been deputed for improvement programme.
- **School of Social Sciences (SSS) – (CHS)** – 01 course coordinated by Dr. Jyoti Atwal. **(CSSP)** – Seminars and Workshops.
- **Centre for the Study of Law and Governance (CSLG)** – Various programmes towards faculty development e.g. foreign visits, participation in national and international conferences, seminars and presentation of papers and delivering of lectures at international platforms continues.

**7. Total Number of Seminars/Workshops Conducted:**

175

**8. Research Projects:**

342 research projects.

**9. Patents Generated, if any:**

- **Special Centre for Molecular Medicine (SCMM) – 01:** Acriflavin (ACF) as an anti malarial agent. Dhar SK, Dana S, Prusty D. Dar A and Mukhopadhyay P. Indian patent filed IPM Cell at JNU, New Delhi. Application No.2630/DEL/2012.

**10. New Collaborative Research Programmes:**

- **School of International Studies (SIS) – (CCUS&LAS)** – Collaborative research programme have been initiated with Deptt. Of Geo-Politics of Manipal University, Institute of Peace and Conflict Studies, New Delhi, Deptt. of Political Science, Kurukshetra University, CEETUM, University of Montreal, Canada, Wilfrid Laurier University, Canada, IGNOU, New Delhi, Central University of Goa, Pontificia Universidad Catolica De Chile and Universidad del Desarrollo, Chile.
- **School of Language, Literature and Culture Studies (SLL&CS) – (CFFS)** – Prof. Kiran Chaudhry has undertaken a translation project of the short stories of Prem Chand in collaboration with Prof. Fernand Ouellet (Retd.) of Sherbrook University, Canada. & Mr. Sebastian Thejus Cherian has undertaken a collaborative research project using smartphone technology in a language learning environment to improve French language acquisition: A collaborative Project between JNU and DCU. **(CGS)** – Translation Project with the Bergische Universitat, Wuppertal, Germany. **(CFL)** – DST, DIT and JEDF.
- **School of Social Sciences (SSS) – (GAE)** – Ministry of Consumer Affairs, GOI., UK India (DST) Collaborative Research on Rural Hybrid Energy Enterprise Systems (RHEES)., **(CHS)** – University College Cork-National University of Ireland (2012), Grinnell College Iowa, USA (2012), Universita DegliStudi Di Napoli Lorienta Le Naples, Italy (2013) etc. **(CSSP)** – STEPS Centre based at the Institute of Development Studies, United Kingdom; King’s College, London; Seventh Framework Programme (FP7), European Commission.
- **Centre for the Study of Law and Governance (CSLG)** – Jayal Niraja Gopal, Co-Director of Asian Hub for the Princeton University project on “State Building in the Developing World, Agreement of Collaborative (AoC) with Oslo University.
- **Special Centre for Molecular Medicine (SCMM)** – Teaching/Research collaboration with two science schools of the university of and research collaboration with various research institutes & universities both at the national & international level are going on. Collaborative papers have been published with All India Institute of Medical Sciences, Safdarjung Hospital & GB Pant Hospital, IIT, Delhi, International Centre for Genetic Engineering and Biotechnology, National Institute of Immunology, New Delhi; Cleveland Clinic Foundation (USA), Harvard School of Public Health, Boston (USA), Uppsala University (Sweden), INSERM (France); Michigan University Centre for Medicine (USA), Kyoto Prefectural University of Medicine, Kyoto (Japan); St. Jude Children’s Research Hospital, Memphis (USA), Case Western Reserve University (USA), Albert Einstein Cancer Centre, Albert Einstein College of Medicine (USA). There is a collaborative grant at the international level involving National Institute of Health of US between SCMM and Case Western Reserve University, US approved and started in 2012.

## 11. Research Grants Received from Various Agencies:

- **School of Social Sciences (SSS) – (GAE)** – Ministry of Consumer Affairs, GOI, Collaborative Research on Rural Hybrid Energy Enterprise Systems (RHEES), **(NEISP)** – 01 research project is funded by Research Council, Norway & 01 is by ICSSR, New Delhi. **(CFL)** – DST, JEDF. **(CSDE)** – Minor research project “A case study of Political Parties” funded by UGC. **(CSSP)** – NSTMIS, Department of Science and Technology; University Grants Commission; Ford Foundation.
- **Centre for the Study of Law and Governance (CSLG)** – Prof. Amit Prakash is a part of European Commission funded collaborative research project entitled the Role of Governance in the Resolution of Socio-economic and Political Conflict in India and Europe (CORE). This research project involves collaboration between 5 European Universities and 5 Indian partners.; Prof. Amita Singh “Development and Change India Project” Essex Prof. Martin Hanson Dean, Dr. Zareen Panex Bharuch and Prof. Steffen Boehm, Director of Essex Sustainability Institute.
- **Special Centre for Molecular Medicine (SCMM) – Mukhopadhyay G.** (PI on behalf of the Centre) “Emerging Areas in Molecular Medicine” to SCMM for 5 years.; **Mukhopadhyay C.K.** “Studies on regulation of mammalian iron transporter transferring receptor by catecholamines” Council of Scientific and Industrial Research (CSIR).; **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”, Department of Biotechnology (DBT).; **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” Department of Biotechnology (DBT).; **Mukhopadhyay C.K.** “Role of Brain Ferroxidases in AD and sCJD Pathogenesis” in US-India Bilateral Brain Research Collaborative Partnerships (US-India BRCP) (R21) Department of Biotechnology (DBT).; **Mukhopadhyay C.K.** “Role and regulation of ceruloplasmin in glial cells in response to norepinephrine” Department of Biotechnology (DBT).; **Tyagi R.K.** “Studies to decipher the functional implications of nuclear receptors docking onto the mitotic chromatin” Council of Scientific and Industrial Research (CSIR).; **Tyagi R.K.** “Generation of monoclonal antibodies against a nuclear receptor “Pregnane & Xenobiotic Receptor” for utility as immunological and diagnostic tool”, University Grants Commission.; **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).; **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.; **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 inhibitors, Department of Biotechnology (DBT).; **Ghosh D.** “Studies on the regulation of adipose tissue development and function by post-translational protein arginylation”, Department of Biotechnology.

## 12. Details of Research Scholars:

Please refer [Appendix II.](#)

## 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 & International):

- **School of Language, Literature and Culture Studies (SLL&CS) – (CL)** Prof. Anvita Abbi received the Padma Shri, the prestigious National Award, in 2013 for her contribution to the study of endangered and lesser known languages in India. **(CAAS)** – Prof. Mujeebur Rahman received the Presidential Award of Badrayan Vyas Samman by Govt. of India. **(CFFS)** – Prof. Abhijit Karkun, elected the President of International Association for Intercultural Research from 2011-2013.
  - **School of Social Sciences (SSS) – (GAE)** – Prof. S.K. Kejariwal received “National Education Leadership Award” by ET Now, Mumbai. **(CHS)** – Dr. R. Mahalakshmi was awarded the Professor Hiralal Gupta Research Award for the best book written by a woman historian. Prof. Kunal Chakrabarti, President, Ancient History Section, Punjab History Conference, Patiala, 2013. Prof. Rajat Datta, President, Medieval History Section, Punjab History Conference, Patiala, 2013. Prof. Pius Malekandathil, President, Medieval History Section, Indian History Congress, 2013.
  - **Special Centre for Molecular Medicine (SCMM)** – Prof. S.K. Dhar has been awarded the prestigious “Shanti Bhatnagar Award in the areas of Biological Sciences.
  - **School of Arts and Aesthetics (SAA)** – Prof. HS Shivaprakash received the Sahitya Akademi Award for Kannada Literature 2012 for his book of poems, Mabbina Haage Kaniveyaa.
  - **School of Life Sciences (SLS)** - Prof RNK Bamezai received the Late L.D. Sanghvi Oration Award for Outstanding Contribution in Human Genetics Research in India.
- Other members of the faculty received many significant awards, Visiting Professorships, in India and abroad.

#### 15. Internal Resources generated:

Almost every faculty member in JNU receives research grant from various funding agencies like UGC, DST etc. for research projects

#### 16. Details of departments getting assistance/recognition under SAP, COSIST (ASSIST)/DST, DSA, FIST, and other programmes:

- **School of Social Sciences (SSS) – (GAE)** – DST-Seed Div. Grant for Adult & Community Education and Enterprise. **(CHS)** – CAS-2008-13 completed.
- **School of International Studies (SIS) – (CWAS & CRCAS)** – The centre’s Gulf Studies Programme receives assistance under the UGC Area Studies Programme.; (CITD) The CITD has an Endowment Project of the Ford Foundation which offer scholarships to students and limited travel and other assistance for guest lecturers etc.
- **School of Language, Literature and Culture Studies (SLL&CS) – (CSPILAS)** – The Centre participated in the Joint Master Programme in the Teaching and Learning of Spanish in International contexts, conducted by the European Union Consortium (Erasmus Mundus) and trained teachers of Spanish from Europe.
- **Special Centre for Molecular Medicine (SCMM)** – Received assistance under UGC-SAP Programme & assistance research grants under ICMR-CAR Scheme.

#### 17. Teachers and Officers Newly Recruited:

40 (forty)

#### 18. Teaching – Non-Teaching Staff Ratio:

- **School of International Studies (SIS) – (CIAS)** – 7:0, **(CWAS)** – 7:1, **(CCUS&LAS)** – 6:2, **(CSDE)** – 4:5
- **School of Language, Literature and Culture Studies (SLL&CS)** - **(CFFS)** – 4:1, **(CCSEAS)** – 1:3, **(CGS)** – 10:3, **(CAAS)** – 3:1, **(CRS)** – 17:7, **(CFL)** – 6:3, **(CSPILAS)** – 12:3

- **School of Social Sciences (SSS) – (CSM&CH) – 8:7, (CHS) – 27:04, (NEISP) – 5:2, (CSSP) - 6:4**
- **Centre for the Study of Law and Governance (CSLG) – 5:6**
- **Special Centre for Molecular Medicine (SCMM) – 2:1**

#### **19. Improvements in the Library Services:**

The Central Library is one of the most modern and well equipped university libraries holding the place of pride in the country. Entire library is connected through LAN & WI-FI. All the schools, Centres and Offices of the University are connected to Library through INTRANET. Library has undergone total re-engineering. Some of the important achievements are presented below:

- a) **Centralized Reading Facility:** A centralized periodical reading facility extended at ground floor to provide one point access to all current issues of scholarly journals and newspapers.
- b) **Automated Circulation System, Resource Sharing:** It has 7500 registered users which include faculty members, trainees, researchers, students and special members. There are 104501 circulation transactions. The Library sent out 687 and received 666 books on Inter Library loan.
- c) **Remote Access, Retrospective Cataloguing of School/Centre Libraries:** All e-resources of the Library including library catalogue can be accessed anytime from anywhere by using remote access server. Central library initiated a project of cataloguing of approx. 360000 books available in school/centre libraries.
- d) **Reorganisation of Bound Volumes:** With the new arrangement, access to all bound volumes of periodicals may be provided at a single location.
- e) **Web OPAC Launched in June 2012 (Access from anywhere, anytime):** It is an online library catalogue, accessible globally, which contains records of all the books, periodicals, theses, dissertations press clippings and other reading materials held by the Library.
- f) **Upgradation of Helen Keller Unit:** Procurement of software Magic and JAWS.
- g) **Digital Library System and Services:** Number of initiatives to upgrade the technological infrastructure at Central Library have been taken such as Two Linux based servers procured for Library Management Software (LMS), ETD and Institutional Repository (IR), Training Lab was set up, LCD Television for Committee room, Audio system in Committee room, Ezproxy server for remote access, etc.
- h) **Display of JNU Faculty Books at World Book Fair 2013:** Central Library organized display of JNU faculty and other University publications during the 21<sup>st</sup> New Delhi World Book Fair.
- i) **Conferences/Seminars/Workshops, Lecture Series and Outreach Programme, Training/Orientation Programme, Book Release/Book Talk Programme** has been organized.

#### **20. New Books/Journals Subscribed and their Value:**

- (a) **Procurement of e-Books/Books:** Library procured 5217 printed books and 1813 e-books worth Rs.1.27 Crore and Rs.80 lakhs. The Library received 676 books worth Rs.1.75 lakhs as gifts. Besides, it received Sub-Saharan Studies and Russian and Central Asian Studies Grant of Rs.28,286 and 22,010 respectively.
- (b) **Subscription to Periodicals and Electronic Databases:** Library subscribed to 850+ print journals and 38 online databases. Besides, Library also got access to 22 databases under UGC Infonet consortia. The total expenditure on subscription of print journals and online databases this year was 4.98 crores approximately.
- (c) **Online Databases subscribed by JNU:** ACM Portal; American Society for Microbiology; The Australian Literature Resource; BBC Monitoring; CEIC Macroeconomic Database (Asia); EBSCO Research Database; HeinOnline; HENRY-STEWART Talk Collection (List of Talks); IEEE xplore; Inder science Online Journals; INDLAW; Lecture Notes in Computer Science LNCS with back files of year 2005,06 & 07; Manupatra; MLA; Nature Research Journals all parts with archives; Newspaper Direct; SCC Online

(Help); Science Direct; Earth and Planetary Science; Environment Science; Neuroscience; Science Online; WILEY Inter-science with Backfiles; India Stat.

Following new databases were added in the Central Library during the year 2012-2013 worth Rs.1.04 Crore:

- DNSA
- Integrum
- Economic Outlook
- Newspaper Direct
- CNKI
- Turnitin
- Wiley Protocols
- HSS Package
- Scopus
- World Bank E-Library
- Artstor
- IFLA Membership
- Scifinder SSM Module
- Nature Five Journals
- Indian Citation Index
- Revista De Filologia Hispanica
- Germanistische Mitteilungen
- Journal of Indian Ocean Region
- Comparative Sociology

## **21. Courses in which Student Assessment of Teachers is Introduced and the Action Taken on Student Feedback:**

- **School of International Studies (SIS) – (CWAS)** – Students are given a chance to make an assessment of their courses and to give their feedback, though informally. **(CCUS&LAS)** – In all the courses offered by the Centre, students are given a chance to make an assessment of their courses and requested to give their feedback.
- **School of Language, Literature and Culture Studies (SLL&CS) – (CFFS)** – Informally it is being done and action is taken on student feedback. **(CGS)** – Individual teachers have introduced student assessment of courses taught by them but this is not being done by all teachers. Very often assessment forms are not returned or only partially completed. Where possible action is being taken on student feedback.
- **School of Social Sciences (SSS) – (CHS)** – Yes., **(NEISP)** - 02 BA Optional courses are being offered this winter semester., **(CS)** – Students assessment of teachers introduced in classes where teachers have worked to incorporate students feedback in designing classes.

On the basis of feedback received from the students the course contents are updated from time to time.

## **22. Feedback from Stakeholders:**

- **School of International Studies (SIS) – (CWAS)** – Students express overall satisfaction with the courses taught by the faculty. **(CCUS&LAS)** – Students of our Centre are highly satisfied with the courses taught by the faculty. **(CITD)** CITD receives the feedback to upgrade courses regularly.
- **School of Language, Literature and Culture Studies (SLL&CS) – (CFFS)** – Regular feedback is sought from teachers, faculty & staff and acted upon. **(CGS)** – Where constructive feedback is offered, effort is made to incorporate it in teaching.

- **School of Social Sciences (SSS) - (CSSP)** – Sponsoring agencies have appreciated the research conducted.
- **Special Centre for Molecular Medicine (SCMM)** – ICMR selected SCMM as one of the three Centre of Excellence in India to assist the research as CAR project. A continuous evaluation in several stages by several committees provided top class performer feedback to SCMM for selection of this programme. SCMM faculties are receiving several individual projects after careful evaluation by the funding committees.

### 23. Unit Cost of Education:

Rs. 42889 (Unit Cost=Total Academic Expenses in the year/No.of students enrolled).

### 24. Computerization of Administration and the Process of Admissions and Examination Results, issue of Certificates:

Following in-house applications developed & mentained by CIS:

- Project Management System*: It covers project information and generates reports for principle investigators of the respective project.
- Student Registration System*: It covers academic registration details of students of the university.
- Cheque Printing Application*: It is being used for printing of cheques by Cash Section.
- Daily Collection Register*: It covers student fee information for generating the daily collection register and other reports.
- NEFT Processing Application*: It facilitates cash section to generate the NEFT format file for Bank in an automated manner.
- Online Application System for non-teaching Staff Recruitment*: It covers only application submission and generates comparative statements for the recruitment.
- E-Complaints System*: It is being used to register and track the online complaints pertaining to Engineering Branch.
- Thesis Tracking System*: It is being used to track the thesis/dissertation status of the students, and manages communication with various stakeholders.
- Result Processing System*: It is being used for processing the semester and final results of the student and to print the mark sheets.

#### Ready to Use IT Applications/Out-sourced Applications:

- Comp-DDO Software: It manages monthly salary disbursement of the staff. This software is arranged from National Informatics Centre, New Delhi (GOI).
- Computerization of the Admission Process: Pre and post admission process of JNU entrance examination. It includes online application mode, online payment gateway integration, SMS and email integration and hosting by an outsourced agency.

### 25. Increase in the Infrastructural Facilities:

- **School of Language, Literature and Culture Studies (SLL&CS) – (CCSEAS)** – LCD Projector installed. **(CGS)** – The language laboratory complex also has multi-media labs, a conference room with facilities for simultaneous interpretation and audio-visual rooms and classes equipped with the smart board. **(CRS)** – CRS has developed its own library and computer lab. **(CFL)** – Pure Sound Pro, Handy Scanner, Electro Pen, Sony Digital Camera and iLume Led Pocket Projector.
- **School of Social Sciences (SSS) – (CWS)** – Audiovisual material used for teaching. **(CSSP)** – Available at the Centre One LED-TFT television set for classroom/seminar room, two LCD Projector for classroom/seminar room, audio system for classroom/seminar room.
- **Centre for the Study of Law and Governance (CSLG)** – The Centre is well equipped with all the modern infrastructural facilities according to the needs and requirement.

- **Special Centre for Molecular Medicine (SCMM)** – Installation of Autoclaves, Installation of Walk in Cold Rooms.

**26. Technology Upgradation:**

CIS upgraded the JNU backbone network to 10Gbps, running in multi ring topology. This has increased the internet and compute infrastructure access speed to global standards. The technology and design used has delivered high speed and resilient network. Optic Fibre Connectivity of JNU is capable to support more than 100 Gbps, which was laid to connect all academic buildings of the university in multi ring topology.

CIS has developed open source cloud infrastructure to host critical services, this service was developed internally and is completely managed in-house. Open standard protocol for authentication of IT Infrastructure/Services was developed to meet JNU's academic requirements. This was completely developed in-house on open source platforms and has delivered capacity to change passwords, which was unavailable in commercial product offerings. A successful use migration without any downtime was also done by forcing users to change password to meet best security practices.

**27. Computer and Internet Access and Training to Teachers, Non-Teaching Staff and Students:**

Computer and internet facility is available to every faculty, student and non-teaching staff. From time to time University has conducted training session for staff and students. Wi-Fi is available inside JNU to all faculties and students.

**28. Financial Aid to Students:**

Students are provided JRFs & SRFs, Scholarships, Escort Allowances, UGC fellowships as financial aid. Financial assistance was enjoyed by students out of Corpus funds of the University to attend seminars/symposium/meetings/workshops within India.

**29. Activities and Support from the Alumni Association:**

JNU is proud to have as its alumni a collective of more than 80,000 social scientists, scientists, civil servants, literary critics, media experts, foreign language experts, journalists, political leaders, social activists, technologists, managers and entrepreneurs over the last 35 years and more. The University has established a Standing committee for Alumni Relations and International Linkages (SCRAIL) under the chairmanship of the Vice-Chancellor. JNU recognizes its alumni as important stakeholders in its continuing quest to provide excellent education. It realises the enormous benefits that can come from the engagement and support of its alumni who have considerable expertise in many areas and can help identify strategic directions for JNU in the 21st century.

**30. 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.

**31. 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.

### 32. Incentives to Outstanding Sportspersons:

The students that have outstanding performance in sports get prizes and certificates.

### 33. Student Achievements and Awards:

**Sami Ahmad Khan** from SLL&CS, won the NBT award for the best debutant novelist for his novel Red Jihad (Rupa, 2012) and **Divya Nair** of the same centre received the Ayyappa Panicker Foundation Award for the best young poet in Malayalam in 2012. **Mohammad Ahmad**, got Gold Medal from President of India for standing first in MA Arabic. **Severin Kuok** awarded the Vimla Saran Gold Medal for securing highest CGPA in MA final. **Divya Goel** of the School of Biotechnology received the Edward Jenner Award at Shanghai in 2012 and **Manish K. Jain** of the same school won the Best Poster Award at the Indian Biophysics Society meeting at the University of Mumbai in January 2013. **Deepak Asthana** of the School of Physical Sciences too won the Best Poster Prize at the NDCS, IIT Delhi in December 2012. **Rahul Dev** of the School of Arts and Aesthetics was awarded the Dinkar Award (youth) for art criticism and writing at Bihar Kala Samman, Department of Art, Culture and Youth, Government of Bihar, 2012–2013. **Ashuthosh Singh** of SLS was appointed ASM Young ambassador to India for American Society of Microbiology, USA, 2013, and, from the same School **Deepak Kumar Singh** won the Best Poster presentation award at ISOA-2012 and 16<sup>th</sup> Biennial Conference of Association of Gerontology (India) at NEHU, Shillong, 2012, **Jitendra Kumar Chaudhary**, received the Young Investigator Award for best scientific research presentation at national workshop on Stem Cell Research and Therapeutics, ISSRF, at IVRI, Bareilly, 2012, and was Ranked 1 st (A+, 1183/1200) in Advanced International Scientific Writing Course-2012 conducted by Achievers League, USA., 15 June–26 August, 2012, and **Sukhleen Kour** won the Best Poster Presentation Prize, National Conference on Emerging Trends and Challenges in Basic and Translational Research in Biochemistry at CAS in Zoology, BHU, 2013. 02 students were awarded for Rafael Iruzubieta Award and Juhi Prasad Award for academic excellence on completing BS (Hons.) Spanish and one student was awarded Pandey Award for academic excellence on completing BA (Hons.) Russian. One student was also awarded Best Student Paper Award.

### 34. Activities of the Guidance and Counseling Unit:

- **School of International Studies (SIS) – (CWAS)** – Centre faculty continually gives guidance and interacts with students seeking counseling on respective personal matter. **(CCUS&LAS)** – The Centre faculty continually gave guidance and interacted with the students seeking counseling on respective personal matters.
- **School of Language, Literature and Culture Studies (SLL&CS) – (CFFS)** – Faculty members do regular counseling as per needs. **(CCSEAS)** – Mentor Group meeting with SFCs and General body of the Centre. **(CGS)** – Mentoring group has been set up at the school level. **(CAAS)** – One faculty member is appointed as a Counselor for students. **(CRS)** – Career Counselling meeting with the students organized at the Centre level. **(CSPILAS)** – Career Counselling meeting with the students organized at the centre level.
- **School of Social Sciences (SSS) – (GAE)** – Organise two workshops: (i) Emotional Capacity Building among JNU student (ii) Gender Harmony. Ongoing face-to-face counseling for JNU students on regular basis with appointment of 02 counsellors. **(CHS)** – English Language Course. **(CSDE)** – Although we don't have a separate unit but as and when student requires we guide them.
- **Centre for the Study of Law and Governance (CSLG)** – No such unit at the centre level.
- **Special Centre for Molecular Medicine (SCMM)** – Students receive adequate and continuous guidance and counseling to achieve their respective career goals.

**35. Placement Services Provided to Students:**

- **School of Language, Literature and Culture Studies (SLL&CS) – (CFFS)** – Campus interviews are encouraged & facilitated by the Centre. **(CCSEAS)** – Invited the Oracle Company to the Centre. **(CGS)** – Placement interaction is facilitated at the school level by the Placement Cell. **(CAAS)** – Facilitated by the Placement Cell. **(CRS)** – Happens on school level.
- **School of Social Sciences (SSS) - (CSSP)** – Informal placement assistance provided. Some of them also got absorbed into ongoing research projects.
- **Special Centre for Molecular Medicine (SCMM)** – Students were provided essential support for the higher academic achievements. Moreover, willing students were placed in Biotech/Pharma industries.

**36. Development Programmes for Non-Teaching Staff:**

Training programmes are conducted by the University periodically for non-teaching staff to enhance their working skills as and when required.

**37. Good Practices of the Institution:**

JNU is very democratic. All academic measures are implemented after feedback from Centres, School Boards and the Academic Council.

**38. Linkages Developed with National/International, Academic/Research Bodies:**

Memorandum of Understanding (MOUs) is there between JNU and 23 other foreign Universities. JNU has also signed Agreement of Cooperation (AOCs) for academic collaboration with 12 foreign universities/institutions. Complete list is attached at [Appendix II](#).

**39. Action Taken Report on the AQAR of the Previous Year:**

- IQAC has set an IQAC webpage having all the information including forms etc. All School/Centres add lecture schedules for all courses on JNU website.
- IQAC is implementing the new API scoring system for both CAS and direct recruitments. Many anomalies have been clarified in API system so as to have clear understanding and easy implementation.
- IQAC is analysing faculty performance on the basis of their publications in journals, books and chapters in books. The analysis of all 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 is continuing the process of updation every year.
- To have a clear picture of quality of publications of faculties and to have a distinction between refereed and non-referred journals, the list of Categorized Journals sent by every School/Centre is uploaded on JNU website. These lists are used to access API scores of all candidates for promotion and direct appointments.

**40. Any other Relevant Information the Institution Wishes to Add:**

- UGC granted JNU the status of University with Potential for Excellence (UPE) and has given it Rs.60 Crore for focused research and infrastructure development.
- 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 5th July 2012. This is highest in the Ministry.
- JNU is planning to implement e-office for paperless governance.

## SECTION C: OUTCOMES ACHIEVED BY THE END OF THE YEAR

- Books: 101
- Chapters in books: 252
- Papers/Articles in Journals: 560

The faculty of JNU has total Nine hundred and thirteen publications in the year 2012-13 out of which there are 101 books, 252 chapters in books and 560 full research papers published in Journals /periodicals.

The total number of admissions in the year 2012-13 was 7677. The details are as follows: 885 students were admitted to M. Phil/Ph. D, M. Tech/Ph.D., MCH/Ph. D and 844 to MA/M.Sc./MCA. The remaining 356 were admitted to BA (Hons.) in foreign languages and 158 were admitted to part time courses;

During 2012– 2013 the following number of students completed their programmes of study and research from JNU are:

- Certificate/Diploma/Advanced Diploma - 73
- B.A. Hons/Pass - 246
- M.Tech - 45
- M.A. - 713
- M.Sc/MCA/MPH - 112
- M.Phil Scholars - 621
- Ph.D. - 414

The following received degrees from our recognized institutions:-

- B.A. (Hons)/ (Pass) (Recognised Institutions) - 268
- B.Sc. (Recognised Institutions) - 284
- B.Tech (Recognised Institutions) - 414
- M.Tech (Recognised Institutions) - 17
- B. Sc (Comp.Sciences) - 189

The total number of degrees awarded being 3396.

The breakup of men and women candidates was 4054 and 3623; respectively. The student teacher ratio is -16:1.

Gender Profile	Social Profile	Programmes
Male 4054 Female 3623	Scheduled Caste 1058 Scheduled Tribe 632 OBC 1948 Physically Challenged 179 Others 3563 Foreign Nationals 297	Research (M.Phil, Ph.D/M.Tech, Ph.D/ Direct Ph.D) 4609 Graduate (MA/M.Sc./MCA) 2113 Undergraduate (B.A.Hons.) 837 Part Time (Undergraduate Level) 118
Total 7677		

## SECTION D: PLANS OF JNU FOR NEXT YEAR

### 1. 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.

### 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 school has augmented its high performance computing facility with addition of powerful cluster computers which heavily used by research scholars and faculty. Initiatives are in the direction of further improving this infrastructure to deal with Big Data.

International collaboration with reputed universities/institutes are given priority with a ctive exchange of students and faculty. Plans are in place to invite distinguished researchers to spend some time at JNU to give impetus to our teaching and research activities.

## 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)**

SIS is working on both theoretical as well as area based studies of the international political system in all its aspects. It is proposed that in the next semester/year, efforts will be made to deepen knowledge in these related disciplines.

Of special interest we intend to increase research on:

- Human security
- African Studies
- South Asian Studies
- Rights and norms in international relations

The School has got some additional posts and would like to fill these with some urgency because some areas like International Law, Comparative Politics and Political Theory, African Studies, Latine American Studies are facing a great shortage of faculty for both teaching and guiding research.

The School is also planning several seminars and conferences in collaboration with other institutions.

## 7. **School of Language, Literature and Culture Studies (SLL&CS)**

The school proposes that in addition to continuing with the outreach workshop for empowering teachers of foreign languages in different academic and educational institutions of Delhi the SLL&CS should:

- Pursue a project on creating teaching material in foreign languages for visually impaired students and developing a Daisy library. There is a genuine perceived need for this;
- Have a summer school on translation, both for literary and specialized texts;
- Explore possibilities for setting up a quality certification cell for translations;
- The Centre of German Studies is collaborating with the Bergische University, Wuppertal, Germany on literary translating, with a focus on bringing out an Anthology of Post-war Women's Writing in German Speaking Countries in translation in Hindi. It is further proposed to extend the project in the direction of translation into Hindi of seminal German texts on Modernity and to publish these.

## 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 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.

#### **9. School of Physical Sciences (SPS)**

The school in research in the areas in chemistry would involve design, synthesis and characterization of new polyoxometalates, organic-conductors, organic radicals, Superconductors, Organic ferroelectrics and their applications as smart materials would be initiated. Classical organic synthesis towards understanding reaction mechanisms, methodology development, etc. would also be the focus area in organic chemistry. Ultrafast dynamics of diverse biomolecules and single molecule spectroscopic studies to understand receptor-drug, DNA-protein, DNA-drug, etc. interaction and binding would be the areas of research emphasis. In addition, development of isothermal calorimetric methods to understand the detailed thermodynamics of these interactions would be carried-out. In theoretical chemistry, molecular dynamics studies to understand dynamics of bio-molecules and amphiphiles and DFT studies to understand electronic properties of molecules would be the areas of primordial interest. New instrumentation facilities are being developed to support the above mentioned research areas. For instance, state-of-the-art single crystal X-ray Crystallography, EPR spectroscopy facilities are being developed. Furthermore, instruments for isothermal calorimetry (ITC), GAS adsorption, DSC-TGA studies, FT-IR and HPCL are in the process of being procured. High performance computational facility is also being developed to support the theoretical chemistry program. These instrumentation and computational facilities are being supported by DST-FIST and DBT.

Similarly, the mathematics group in SPS is working in the areas of Dynamical Systems, Operator Algebras and Number Theory. In Dynamical Systems, we would like to study distal and nonexpansive maps on groups and their properties. In Operator Algebras, we would like to see what kind of nuclearity the group operator systems possess for different classes of groups and we will study such properties for graph operator systems. In Number theory, we would like to study elliptic curves, modular forms, Galois representations and related congruences. Moreover, for an abelian variety, we would like to study relation between its isogeny class and the family of Frobenius fields associated to it.

#### **10. 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.

**11. Special Centre for the Study of Law and Governance (CSLG)**

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's vision for the future seeks to nurture critical law, governance and public policy studies by foregrounding critical approaches to governance and theories of transformative constitutionalism. This includes the use of social science perspectives and methods to study law, governance and public policy, bringing socio-legal research in conversation with political, social and legal theory; and nurturing research of law by other means. The Centre has already initiated the process by anchoring the Law and Social Sciences Research Network (LASSnet), which has organized three international conferences involving scholars from round the world. The Critical Governance Studies Programme speaks to the urgent need to redress the inadequacy of our context-specific understanding of the determinants of state capacity.

**12. Special Centre for Molecular Medicine (SCMM)**

*Research:* The centre is planning to expand its scope in the areas of Molecular Diagnostics, Drug Resistance and Translational Research in future.

*Teaching:* The Centre is going to start an integrated M.Sc.-Ph.D. programme in the appropriate discipline of Molecular Medicine.

**13. Special Centre for Sanskrit Studies (SCSS)**

- 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 Sciences 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. JNU has the culture of interdisciplinary research and nano science research was carried out in different schools. It was realized that a discipline like nano-science and technology should get into the academic programme of the university before it is too late. In this spirit, an advisory committee was set up and on its recommendation SCNS was set up in the year 2010.

Two assistant professors joined the centre in 2013 while two more associate professors joined by the beginning of 2014. Since September 2013, the SCNS started operating from the former SCMM building. A central instrumentation facility was initiated and equipments like FTIR-Raman spectrophotometer, laminar hood, BOD incubator, Dynamic Light Scattering, Zeta Potential Measurement, UV-NIR Spectrophotometer, Viscometry, Tensiometry, Potentiostat-Galvanostat, Cell culture facility, Fluorescence Spectrophotometer, and Contact Angle Measurement have been procured. A common experimental lab for research students was also started. Syllabus preparation and administrative processes for starting Pre-Ph.D. programme in SCNS was completed and three students were admitted in the first batch starting from August 2014. Additionally about 20 M.Tech/M.Sc. students from universities all over the country completed their research projects at the SCNS and got trained in nanoscience related research till July 2014.

Two DST nanomission projects with budget close to 1 crore have been procured by Dr. Bijoy Kuanr and Dr. Pratima. Two more such nanomission projects have been proposed by Dr. Satyendra and Dr. Balaji. Two UGC start-up grant projects are also running. Likewise faculty members of the SCNS are coordinating two collaborative UPOE project involving faculty members from other schools and centres of JNU.

## APPENDIX I - FACULTY RESEARCH PROJECTS

### School of Biotechnology

- 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.
- Bhatnagar R. "Identification and Characterization of immunodominant B Cell Epitopes that confer protective Immunity against Anthrax", Department of Biotechnology, 2011 – 2014
- 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
- Bhatnagar R. "Development of diagnostic kit for detection of Mycobacterium tuberculosis complex and Mycobacterial species", Department of Science and Technology, 2011 – 2014
- 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
- Bhatnagar R. "Role of multifunctional Plasminogen binding glyceraldehyde-3- phosphate dehydrogenase of Bacillus Anthracis in anthrax pathogenesis", Indian Council of medical Research, 2012 – 2015
- Bhatnagar R. "Development of recombinant Omp25 based vaccine against Brucellosis for human", Department of Biotechnology, 2012 – 2015
- Bhatnagar R. "Characterization and adjuvant potential of Poly-a-L-Glutamine of Mycobacterium tuberculosis H37Rv", Department of Biotechnology, 2012 – 2015
- Bhatnagar R., WalRK – a Two Component Signal Transduction System in Bacillus anthracis – A prospective antimicrobial target. (Un-sponsored Projects)
- Bhatnagar R., Study of existence of lipid microdomains in Bacillus anthracis (Un-sponsored Projects)
- Bhatnagar R., Molecular characterization of PhoPR Two Component System in Bacillus anthracis (Un-sponsored Projects)
- Bhatnagar R., Identification and characterization of a GTP sensing novel transcription reulator CodY in Bacillus anthracis (Un-sponsored Projects)
- Bhatnagar R., Characterization of CialRH (Spn) like Two Component System in Bacillus anthracis (Un-sponsored Projects)
- Bhatnagar R., Characterization of catalases from Bacillus anthracis (Un-sponsored Projects)
- Bhatnagar R., "Comparative analysis of glnA1 loci of Mycobacterium bovis and Mycobacterium smegmatis; its implications in PLG synthesis in cell wall", (Un-sponsored Projects)
- Bhatnagar R., Characterization of Mycobacterium Tuberculosis Enolase – A Surface Exposed Plasminogen Binding Protein (Un-sponsored Projects)
- Bhatnagar R., Characterization of a novel toxin-antitoxin module from Mycobacterium tuberculosis (Un-sponsored Projects)
- Pati U., "Role of P53 as a molecular sensor of oxygen in inducing apoptosis in Hypoxic Cancer Cells", funded by ICMR, 2013 – 2016
- Pati U., "Role of triplex DNA in transcriptional regulation of Cardio Protective NOS2 Gene", Funded by ICMR, 2012 – 2015
- Pati U., P53 Post – Translational Modifications & Oxygen Sensing (Un-sponsored Projects)
- Pati U., Regulation of Prolyl Hydroxylases in Hypoxia (Un-sponsored Projects)
- Pati U., Oxygen Releasing Drugs (Un-sponsored Projects)

- Dixit A., “Development of DNA based vaccine against *Aeromonas* spp. employing conserved outer membrane porin gene (IamB)”, Department of Biotechnology, New Delhi, 2 June, 2008 – 31 December, 2012.
- 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, 2013.
- 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, 2014.
- Dixit A., Differentiation inducing ability of *M. Charantia* (Un-sponsored Projects)
- 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 (Un-sponsored Projects)
- Dixit A., Studies on Napin-like gene from *M. Charantia* (Un-sponsored Projects)
- Dixit A., Vaccine development against *Aeromonas hydrophila* (Un-sponsored Projects)
- Bhat R., DBT-JNU Interdisciplinary Life Science Programme for Advanced Research and Education in the area “From molecules to systems: Exploring the biological space using chemical and synthetic biology”, Department of Biotechnology, 2012 – 2017
- Bhat R., Stability, folding, and aggregation studies of recombinant human  $\alpha$ -,  $\beta$ -, and  $\gamma$ -synucleins and the effect of polyphenols and organic solutes on aggregation (Un-sponsored Projects)
- Bhat R., Prevention of amyloid fibril formation in proteins by using structure stabilizing compounds using hen white and human recombinant lysozyme (Un-sponsored Projects)
- 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, PRDSF programme of DST, January, 2010 – June, 2013.
- Mukherjee K. J., Design of an *E. coli* host for the over production of shikimic acid using Metabolic Engineering, Department of Biotechnology, June, 2011 – June, 2014
- Mukherjee K. J., From molecules to systems: Exploring the biological space using chemical and synthetic biology, Department of Biotechnology, March, 2012 – March, 2017
- Maitra S. S., “Evaluation of microbial (methanogenic) biodiversity in marsh lands of Silchar, Northeast as well as MSW leachate from Delhi landfill sites: Comparative study using PCR and DNA sequencing based methods”, Funded by DBT.
- Rajala S. M., “Detection of somatic mutations in tyrosine kinase domain of EGFR and mutant EGFR driven molecular mechanism in lung carcinoma”, funded by ICMR, New Delhi
- 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.
- Rajala S. M., Development of oncolytic virus using measles viral genome (Un-sponsored Projects)
- Tiwari S., “Effects of perturbation of pRb-Fzr1-Skp2 axis on mammalian cell cycle regulation”, (Approved for funding, 2012)
- Tiwari S., “Investigations on differential expression of ubiquitin proteasome pathway genes during stage conversion in *Entamoeba* species”, Full proposal submitted to ICMR (2012)
- Arya, R., ‘Manipulation of sialic acid biosynthetic pathway using GNE and its effect on cytoskeletal organization’ CSIR, Extramural Research Division, 1 January, 2012 – 1 January, 2015

- Arya R., Possible role of key sialic acid biosynthetic enzyme (UDP-N-acetylglucosamine 2-epimerase/Mannosamine kinase) in apoptosis, ICMR, Sanction order No. 80/5/2010- 29 March, 2012 – 29 March, 2015
- Arya R., “Expression and characterization of bifunctional enzyme UDP-N acetylglucosamine 2-epimerase/N-acetylmannosamine kinase in Dictyostelium discoideum”, Department of Science and Technology 2009-2012. Sanction order No. SR/FT/LS-146/2008 (Completed Projects)
- Arya R., “Expression and characterization of bifunctional enzyme UDP-N acetylglucosamine 2-epimerase/N-acetylmannosamine kinase in Dictyostelium discoideum”, Department of Science and Technology 2009-2012. Sanction order No. SR/FT/LS-146/2008 (Completed Projects)

### **School of Computational and Integrative Sciences**

- Lynn, A. M., “Compute Infrastructure for the OSDD Galaxy Module”, CSIR, 2012-13
- Lynn, A. M., “Molecular Property Diagnostic Suite”, CSIR, 2012-13
- Ghosh Indira, “Establishment of National Database on tuberculosis Phase II”, Department of Biotechnology: 2011-2014
- Ghosh Indira, “Designing novel anti – Malarials Using target based Pharmacophoric approach”, MCIT: 2009 – 2013
- Ghosh Indira, “Bioinformatics National Certificate Exam (BINC)”, Department of Biotechnology, 2011 – 2014
- Ghosh Indira, and N. Subbarao (Co-PJ), “Core Plant Metabolomics” (with IIIT-Hyderabad), Department of Biotechnology, September, 2011 – 2016
- Ghosh Indira, Partner in “DBT builder” (inter school) Rajiv Bhat (SBT), Department of Biotechnology, 2012 – 2017
- Ghosh Indira, “Plan Project: BIC/Center of Excellence of Bioinformatics & computational Biology “(COE, Molecular Graphix, Internet facility & M. Tech, Department of Biotechnology, 2012 – 2017
- Bandyopadhyay Pradipta, “Department of Science and Technology. “Development and application of a biased monte carlo simulation technique: Exploring and characterizing potential energy surfaces of large molecules” April, 2010 – March, 2013.

### **School of Environmental Sciences**

- Saxena K.G., Production and Marketing of Pulses and Beans in India supported by IC Net, Japan (ongoing)
- Saxena K.G., Tropical Soil Biology and Fertility – South Asian Regional Network programme sponsored by TSBF-CIAT, Nairobi (ongoing)
- Saxena K.G., On-the-Job Research Capacity Building for Sustainable Agriculture in Developing Countries – Crop-Livestock mixed farming in Asian Cold Desert, supported by United Nations University Institute of Sustainability and Peace, Tokyo (ongoing)
- 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. (ongoing)
- Saxena K.G., Relating indigenous natural resource management with global climate change adaptation and mitigation sponsored by United Nations University, Tokyo
- Saxena K.G., On-the-Job Research Capacity Building for Sustainable Agriculture in Developing Countries supported by United Nations University Institute of Sustainability and Peace, 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.
- Bhattacharya Sudha, “Genomic distribution of Entamoeba histolytica retrotransposons: Use in strain identification, ploidy measurement and gene expression”, Funding agency: Indian Council of Medical Research, 3 years (April 2010-2013)
- Bhattacharya Sudha, “Regulation of rDNA transcription in Entamoeba invadens”, Funding Agency: DST, 3 years (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), Funding agency: DBT, 5 years (2011-2016)
- Thakur I.S., In vivo recruitment of bacteria and its characterization for removal of CO<sub>2</sub> from thermal power plant. Department of Biotechnology, Government of India, (ongoing)
- Thakur I.S., In vivo recruitment of bacteria and its characterization for removal of CO<sub>2</sub> from thermal power plant. Department of Biotechnology, Government of India, (ongoing)
- Thakur I.S., Optimization of biopulping and biobleaching processes for removal of colour and organic compounds from pulp and paper mill effluent (UGC) (completed in five years), 2013
- Thakur I.S., Optimization of process parameters for decolourization and detoxification of medium scale pulp and paper mill effluent (DBT) (completed in five years), 2013
- Thakur I.S., Optimization of process parameters for upscaling of tannery effluent treatment by microorganism (DBT). (completed in five years), 2013
- Thakur I.S., Molecular characterization of pentachlorophenol-degrading bacterial consortium for treatment of chlorinated Phenols in industrial effluent (DST). (completed in five years), 2013
- Thakur I.S., Microbial anaerobic and aerobic process optimization for biodegradation and bioconversion of distillery effluent. (completed in five years), 2013
- Mukherjee, S., P. I. Geomorphology and Lineament mapping. ISRO-GSI joint National Project 2010-2013 (ongoing)
- Mukherjee, S., P. I. Ganga Basin Geomorphology. MOEF National Project 2010-2013 (ongoing)
- Mukherjee, S., P. I. Assessment of tectonic implications on groundwater in vicinity of Faridabad and Ghaziabad faults across river Yamuna. DST sponsored Project (2011-2013) (ongoing)
- Mukherjee, S., Chandrayan-1 MiniSAR data analysis for Tectonics and water Resources of the Moon, Sponsored by Space Application Center, ISRO, (2012-2014) (ongoing)
- Mukherjee, S., P.I. “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
- Khillare P.S., Assessment of Ozone and Volatile Organic Compounds (VOCs) in the ambient air of Delhi. UGC Project (2011 – 2013).
- Ramanathan A.L., SIDA Sweden, identification of alternate ground water resources in Bhalia Region India, 2010-2013
- Ramanathan A.L., Monitoring Chhota Shigri glacier-DST project, 2012-2014
- Ramanathan A.L., Indo Norway project sanctioned on hydrological system in India to climate change on Himalayas (JNU- Norwegian Water Resources & Energy Directorate, Norway), 2013
- Mukhopadhyay K, “Structure Activity Relationship of Alpha-Melanocyte Stimulating Hormone: Mechanism of Staphylocidal Activity”. Indian Council of Medical Research 2012 - 15.
- Kumar Krishan, “Spatial and temporal dynamics of Urban Heat Island in Delhi and its implication for the air quality of Delhi”, Funding Agency: DST, Investigators: Krishan Kumar (PI) & V K Jain (Co-PI), 2009-2013

- Kumar Krishan, “An investigation of the role of hydrocarbons in ozone formation in ambient atmosphere of Delhi”, Funding Agency: UGC Investigators: Krishan Kumar (Co-PI) & V K Jain (PI), 2011-2013
- Mohan D. (PI) “Development of Rice and Tea Residues-Derived Biochars as effective green Materials for Adsorptive Stabilization in Soil and Water Systems” Department of Science and Technology, New Delhi under Indo-Sri Lanka Joint Research Program, 2013
- Mohan D. (PI) “Technology Development for Atmospheric CO<sub>2</sub> Sequestration using Biochar Derived From Agricultural Wastes/Byproducts” Department of Science and Technology, New Delhi, 2013
- Mohan D. (PI) “Development of Low Cost Magnetic and Nonmagnetic Biochars for Water Defluoridation” Department of Science and Technology, New Delhi for two years, 2012 – 2013
- Mohan D. (PI) “Development of Novel Magnetic Carbons for the Remediation of Micro Pollutants from Water” University Grant Commission, New Delhi Duration: Three years, 2011 – 2014
- Raju N. J., UGC sponsored major research project entitled “Water quality in the Swarnakukhi River basin and role of atmospheric CO<sub>2</sub> consumption in surface and subsurface processes in water-soil interaction”, 2013-2016.
- Ghosh I, “Antioxidant Detection by a Designer Cell Line: A prospective Biosensing System” PI, DBT, 2009 (Ongoing)
- Ghosh I, “Hyaluronan Binding Protein 1 (HABP1) overexpressing cell lines as a model to examine autophagy induction in respect to tumorigenesis”, PI, DST, 2012 (Ongoing)
- Paulraj R., “Cytotoxic and genotoxic evaluation of municipal solid waste land fill leachate of Major landfill sites in Delhi”, UGC, July, 2012 (5 years)
- Paulraj R., “Effect of non ionizing electromagnetic field on human health”- ICMR, 2011 (5 years)
- Yadav S., Metal characterisation of E-waste and environmental impacts due to its recycling, University Grants Commission 2012-2015.
- Yadav S., Chemical Characterisation of <2.5 micron size aerosols in N NW parts of India: sources and processes. Council of Scientific and Industrial Research 2011-2014
- Srivastava Arun K., Characterization of Bio-Aerosols in Different Size Ranges over Delhi, University Grant Commission, New Delhi, India (2013-Continue) three years.
- Sudip Mitra, “Scoping study for S & T interventions for improving livelihood options and income in selected village cluster in Mewat region”. Department of Science and Technology, Government of India, 2012-13.
- Pal Vijay, “Characterization of induced retrotransposition in a retrotransposition-competent Entamoeba histolytica cell line”, PI, SERB/DST, 2012 (Ongoing)

## **School of International Studies**

### ***Centre for European Studies***

- Choudhury Srabani Roy, Project for Ministry of Finance, Tokyo, Policy Research Institute, 14 May, 2012 – 30 June, 2014.
- Choudhury Srabani Roy, Comprehensive Economic Partnership Agreement between Japan and India: The Ensuing Prospects for Japanese Companies in India, Policy Research Institute, Ministry of Finance, Japan.
- Jain, Rajendra K., “The European Union and Pakistan since 9/11”, (ongoing)
- Jain, Rajendra K., “The European Union and South Asia”, (ongoing)
- Bava, Ummu Salma, Visiting Fellow, NFG Research Project Asian Perceptions of Europe, Center for European Integration, Free University Berlin, Germany, 1 August – 30 September, 2012.

- Bava, Ummu Salma, EU-ASIA CHAIR and Visiting Fellow, The EU's Foreign Policy. What Kind of Power and Diplomatic Action, Institute for European Studies, Université libre de Bruxelles, Belgium, 17 April – 16 May, 2012.

#### ***Centre for International Trade and Development***

- Bansal, S., Eliciting farmers' preferences for drought tolerant rice seeds in India, International Food Policy Research Institute, Washington DC, USA, (2012-2014).
- Mehra, Meeta K., Research on "Fossil-Fuel Subsidies in India in the Context of G-20 Dialogue" commissioned by ICRIER, 2011-12.
- Ray, Amit S., Intellectual Property Management at Centres of Higher Education: A Comparative Study of India and the United Kingdom, JNU-University of Essex Development Fund (JEDF), (2013 – 2014)
- Ray, Amit S., Clinical data, Bioequivalence and Generic Drugs: Analysis from India and Brazil, ANRS (The French National Agency for Research on AIDS and Viral Hepatitis), Government of France (2010 – 2014)
- Ray, Amit S., Commercialisation of Inventions from Public Funded Research in India, Department of Science & Technology(DST), Government of India (July, 2010 – July, 2012)

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

- Dhaka Ambrish, New M.Phil Course introduced and started at SIS, JNU titled as GIS for Area Studies (SA-662).
- Dhaka Ambrish, Student-Faculty Seminar organised on Partnering Afghanistan in the Emerging Asian Order 26 February, 2013
- Dutta Mondira, Community Based Preventive Measures for Trafficking of Women and Girls in India, sponsored by UN Women, New Delhi, December, 2012
- Dutta Mondira, "Status, Functions and Performance of State Women's Commission in India", April 2012, National Commission for Women, GoI, New Delhi
- Soni, Sharad K, Principal Investigator, "Documentation of Uzbek Literature in India", Ministry of External Affairs, undertaken by Association of Asia Scholars. (ongoing)
- Soni, Sharad K, Team Member, Oral History Project on "China Studies in South Asia", Jointly undertaken by Taiwan National University and Association of Asia Scholars. (ongoing)

#### ***Centre for Russian, Centre for Asian Studies***

- Patnaik Ajay Kumar, Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata, project on Central Asia: Geopolitics, Security and Regional Stability, 2012 – 2014
- 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, Funded by European Union, March 2012 – 2016.
- Upadhyay Archana, (2012-2013), "On the Margin of Politics, National and International: Reminiscences and Reflections of an Eurasianist", Funded by the CRCAS/SIS, JNU, 2012 – 2013.
- Kumar Rajan, 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. Based in Tallinn, Funded by European Union, March 2012 – 2013
- Usha K. B., Empowerment of Women in Political Leadership: A Comparative Study of Russia and India, sponsored by Indian Council of Social Science Research, New Delhi, 2010 – 2012

#### ***Centre for International Politics, Organization and Disarmament***

- Basu Moushumi, “Migration Flows, Labour Market Policies and Social Friction”, Norwegian Research Council in collaboration with the Norwegian University of Science and Technology (in continuation over the period 2012-13).
- Murthy, C.S.R., “Politics of Norm Evolution and the Responsibility to Protect”, Global Public Policy Institute, Berlin, 2012-15.

## **School of Language, Literature & 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 Thirukkural”, funded by the Central Institute of Classical Tamil, Chennai, ongoing.
- Rahman Rizwanur, “Indradhanush: Integrated WordNet of Urdu”, funded by the Department of Information Technologies, Govt. of India, ongoing.

### ***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 M. Asaduddin & Anuradha Ghosh, 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., 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, Partner (along with Charles A. Baldwin, West Virginia University, USA and Astrid Ensslin, Bangor University, UK), “Computer Gaming across Cultures”, a research project funded by UKIERI UK-US-India Trilateral Research in Partnership, administered at West Virginia University, Morgantown, USA, 2012-2014, 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, 2011-2014, ongoing.

### ***Centre of Indian Languages***

- Choubey Devendra, (Co-PI, Hindi, with Girish Nath Jha as Consortium Leader), “ILCI – Indian Language Corpora Initiative”, Second Phase, DIT (Govt. of India) sponsored project, at the Special Centre for Sanskrit Studies, JNU, 2012-2014, ongoing.

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

- 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, 2011-2012, complete.
- Samajdar Neerja, Project Director, and Ravikesh, Co-Director, “Promotion of Korean Studies in India and South Asia”, funded by Academy of Korean Studies (AKS), Korea, 2010-2013, 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, 2009-12 extended upto 2013.
- Narang Vaishna, “Development of UNICODE for major Indian Languages”, a project of the Braille Council of India, National Institute for the Visually Handicapped, Dehradun.
- Narang Vaishna, as co-investigator 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.
- Narang Vaishna, as co-investigator with Madhuri Behari, S. Senthil Kumaran, and Vinay Goyal, AIIMS, New Delhi, “Neuromapping of functional deficits associated with Parkinsonian disorders”, Sponsored by DST, 2010-13.
- Kidwai Ayesha, “The acquisition of ‘Hindi’ Case marking”, funded by the JNU-Essex Development Fund, 2013-2014, ongoing.

#### ***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., “Hindi-Persian Dictionary”, sponsored by NHD, MHRD, 2011-2013, ongoing.
- Ansari A.A., “A Survey of Amir Khusraw’s MSS in India”, sponsored by AKFT & Ford Foundation, ongoing.

#### ***Centre of Russian Studies***

- Mittal Manu, “India and Central Asia: Links and Interactions through the Ages”, UGC sponsored Major Project, ongoing.
- Roomi Nasar Shakeel, “Post Soviet Russian Literature (During the Period: 1992-2009)”, UGC sponsored Major Project, completed 2012.

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

- Prasad R., “MDR regulation in *Candida albicans*” Department of Science & Technology (DST), 2009- 2012.
- Prasad R., “Rational designing of peptide inhibitors of multidrug transporters of the human fungal pathogen *Candida albicans*”. Department of Biotechnology (DBT), 2009-2013.
- Prasad R., “Reinforcing the International Cooperation in FP7 FAFB Strengthening the Circle of Third Country NIPs”. (BIO CIRCLE 2), European Commission, 2011-2013.
- Prasad R., “Lipidomics of human pathogenic multidrug resistant *Candida*: identification of lipids as antifungal targets”. Department of Biotechnology (DBT), 2010-2013.
- Prasad R., “Mutational Analyses of a Multidrug ABC Transporter to Dissect Mechanism of Drug Efflux” Department of Biotechnology (DBT), 2011-2014.
- Prasad R., “Combating MDR in pathogenic yeast *Candida albicans*” Center of Excellence, Department of Biotechnology (DBT), 2011-2016.
- Cowsik Sudha M., Principal Investigator- Structural analysis of Cannabinoid Receptor Interacting Protein using Bioinformatics tools, Fluorescence, CD and NMR spectroscopy, Indian Council of Medical Research, Government of India, 2013-2016.
- Cowsik Sudha M., Principal Investigator- Modulation of structural and molecular aspects of membrane linked functions by estrogen in aging rat brain, University Grants Commission, India, 2010-2013.
- Bamezai R.N.K., “Creation of National Centre of Applied Human Genetics”, funded by University Grants Commission, 2007 – 2012. (ongoing)

- 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., 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 Scientist from India and the University of Washington, Seattle. Please see the web site: <http://www.sbri-india-gid.org/home/index.asp> 2006-2011 No cost extension till 2013.
- 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.
- Mallick B. N., (DST 2008 – 2013), Centre for Sleep Studies.
- 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.
- Goswami S.K., Proteomic and transcriptomic evaluation of the anti-hypertrophic and -heart failure properties of Terminali Arjuna extract, DST, 2013-2014.
- Goswami S.K., Analysis of cross-talk between adrenergic and Nox Signaling in failing myocardium, ICMR, Approved.
- Chakraborty Supriya, Molecular identification and characterization of virulence factors of Tomato leaf curl virus, DST, 2009-2013.
- Chakraborty Supriya, Molecular mechanism of PTGS mediated host recovery associated with tomato leaf curl virus infection, DBT, 2011-2014.
- Chakraborty Supriya, Engineering broad-spectrum resistance against plant-infecting RNA viruses. CSIR, 2011-2014.
- Saxena A. K., Department of Science and Technology (DST), India. Title: Structure and function analysis of M. tuberculosis vaccine candidate EspC protein. PI-Ajay K. Saxena (2013-2016).
- Saxena A. K., Department of Biotechnology (DBT), India Project- Structural and functional analysis of M. tuberculosis DprE1 and DprE2 enzymes involved in cell wall synthesis. PI-Ajay K. Saxena & T. P. Singh (2013-2015).
- Saxena A. K., Department of Science and Technology (DST), India. Project- Structural and functional analysis of ERG oncoprotein: potential target to develop prostate cancer drug. PI-Ajay K. Saxena (2010-2013).
- Saxena A. K., Council of Scientific and Industrial Research (CSIR), India. Project-Structure analysis of M. tuberculosis CarD protein: an essential regulator of rRNA transcription. PI-Ajay K. Saxena (2011-2014).
- Saxena A. K., Council of Scientific and Industrial Research (CSIR), India. Project- Structure analysis of the Human Transporter Associated with Antigen Processing (TAP) protein. PI-Ajay K. Saxena (2006- 2009).
- Natarajan K., “Examination of the Melanocyte-Keratinocyte Network in Vitiligo”, Department of Biotechnology 2008-2013. Role- Co-PI.

- 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.
- Natarajan K., “System-based Computational Model of Skin (SCoMoS)”, Council of Scientific and Industrial Research 2012-2015. Role- Co-PI.
- Nandi A. K., DBT Project 2008-2012: Functional analysis of rice MYC2 transcription factor family in rice.
- Nandi A. K., UGC Project 2011-2014. Role of ZFD1 a zinc finger domain containing protein from *Arabidopsis thaliana* in plant disease resistance.
- Nandi A. K., DBT Project 2011-2014: Chromatin remodeling for activation of systemic acquired resistance in *Arabidopsis*.
- Nandi A. K., CSIR Project 2013-2016: Identification of genes involved in fine tuning of plant defense using *cdd1* mutant of *Arabidopsis* as genetic tool.
- Nandi A. K., DST Project 2013-2016: Role of MEDEA, a polycomb repressor of *Arabidopsis* in pathogenesis.
- Saran Shweta, Title of the project “Understanding the role of siruins and autophagy in longevity using *Dictyostelium discoideum* as a model system” Funded by ICMR, India (July, 2013 – June, 2016).
- Saran Shweta, Title of the project “An alternative approach towards the understanding of Huntington disease using *D. discoideum* as a model system” Funded by DBT, India (July, 2011 – June, 2014).
- Saran Shweta, Title of the project “Temporal and spatial expression pattern of TOR during growth and development of *Dictyostelium discoideum*” Funded by CSIR, India (August, 2010 – July, 2013).
- Singh Rana Partap, Study of Antiangiogenic and Anti-tumor Effects of Fisetin in Lung Cancer: Implication for Intervention of Cancer from ICMR, India, (2012-2015).
- Singh Rana Partap, To study the role of protein glycosylation in cell-extracellular matrix interaction and cancer progression UGC, India (2012-2015).
- Komath S. S., Studying the mechanism of de-N-acetylation by a novel de-N-acetylase from *Entamoeba histolytica*. Funded by Council for Scientific and Industrial Research, India.
- Komath S. S., GPI biosynthesis and Ras signaling in *Candida albicans*. Funded by Department of Biotechnology, India.
- Gourinath S., Sponsoring Agency: Department of BioTechnology (Indo-German grant), Title: Structural and functional Characterization of *Helicobacter pylori* pre-initiation Complex Proteins Duration: 2010 – 2013: Amount of the grant: ~70 lakhs.
- Gourinath S., Sponsoring Agency: CSIR, Title: Structural and functional studies of crucial cysteine biosynthetic pathway enzyme: Serine acetyl transferase. Duration: 2011 – 2014: Amount of the grant: ~22 lakhs.
- Gourinath S., Sponsoring Agency: Department of BioTechnology (Programme support on molecular parasitology), Title: Structural and functional Characterization of crucial cysteine biosynthetic pathway proteins from *E. histolytica* and *L. donovani*, Duration: 2011 – 2016: Amount of the grant: ~45 lakhs.
- Panwar S. L., Relevance of WW-domain containing protein co-regulated with drug efflux pumps in *Candida albicans*: sponsored by Department of Science & technology; 2012-2015.
- Jha S.K., “The Role of Amygdalar Neurons and Glia in Sleep-dependent Consolidation of Cued Fear Conditioned Memory in the Rat”. DST 2011-2014.
- Jha S.K., “Molecular Mechanisms of Sleep-Dependent Consolidation of Contextual Fear-Conditioning in Mice”. DBT 2012-2015.

- Tiku Ashu Bhan, Modulation of radiation induced hematopoietic injuries by Aloe vera UGC 2010-2013.
- Puri N., Principal Investigator: “To determine the molecular mechanisms of regulated exocytosis of various inflammatory mediators from mast cells”, Department of Science and Technology 2011-2014.
- Puri N., Co-Investigator: with Saxena RK, as Principal investigator “Interactions of carbon nanoparticles and their chemically modified forms with cells and organs in vitro and in vivo” Department of Science and Technology 2009-2013.
- Puri N., Co-Investigator: with Saxena RK, as Principal investigator “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 2009-2012.
- Ramchiary Nirala, The project entitled” Dissecting Diversity of Pungency and Yield Component traits into the Genome of Bhut Jolokia, The hottest Native Chili Pepper of North East India” granted by the Department of Biotechnology, Govt. of India, was started from October 2012. This project is a part of Ramalingaswami Re-Entry Fellowship which is for 5 years with a total financial grant of 77.5 Lakhs (45 Lakhs Fellowship Grant and 32.5 Lakhs Research contingency grant).
- Paul J., “Fast Detection of Intestinal parasites using multiplex real time PCR” funded by University Grants Commission, New Delhi (2012-2015) as PI.
- Paul J., “Retrotransposons in Entamoeba histolytica: Genotypic variations, epidemiological tools and phenotypic consequences” The R&D project3 funded by DBT (2011-2016) is a part of Center of Excellence in Parasitology research (COE program) as Co-PI.
- Paul J., “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**

- Das S. P., BRNS Project on “Underlying Phase Transition in a Supercooled Liquid”, 2012 – 2015, REF: NO 2011/37P/47/BRNS.
- Ghoshal D., D. Choudhury (DU), A.A. Sen (JMI), “Cosmology & Astrophysics from Higher Dimensions”, DST 2011 – 2013
- Mohanty T., DST-DAAD project “Study of Electronic and Optical Properties of Graphene-Metal Oxide Nanocomposite Thin Films for its Application as Transparent Conductors” 2011 – 2013
- Puri S., “Multi-Scale Modeling of Domain Growth in Fluid Mixtures, Department of Science and Technology”, INDIA, March, 2010 – March, 2013
- Patnaik S., “Correlation Between Magnetoelectric Coupling and Exotic Magnetic Structure in Some Oxide Multiferroics”, UGC – CSR (Mumbai) 2012 – 2014.
- 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
- Sen, S., (Group Project): “FROM MOLECULES TO SYSTEMS: Exploring the Biological Space Using Chemical and Synthetic Biology”, under DBT-BUILDER programme, 2012 – 2017.

### **School of Social Sciences**

#### ***Centre for Economics Studies***

- Kumar Arun, Global Project on Tax Havens and Impact on Development Rawal Vikas, UGC Project on “Report of Socio-Economic Surveys of Selected Villages in Rajasthan”

#### ***Centre for the Study of Discrimination and Exclusion***

- Chinna Rao, Y., Dalit Education in South India: Selections of Documents – 1850-1950, Indian Council of Historical Research (2011-2013).
- Chinna Rao, Y., Democracy and Political Marginalization of Dalits in India: A Case Study of Political Parties, University Grants Commission, (2012-2013).

### ***Centre for Historical Studies***

- Nair Janaki Currently a member of the Transnational Research Group, which is a project on Poverty and Education involving students/faculty from the Universities of Goettingen, Germany, JNU, India, and King's College, UK, as well as the German Historical Institute.
- Mahajan Sucheta, Research Project on "Towards Freedom" sponsored by Indian Council of Historical Research. These are compilations of historical records pertaining to the last decade of colonial rule in India.
- Mahajan Sucheta, Research Project on Colonialism and Decolonisation: British and French Perspectives.
- Dasgupta Sangeeta, Research Award from the University Grants Commission for the project 'Reordering of Worlds: Oraons and TanaBhagats in Colonial Chhotanagpur' (February 2012-February 2014)
- Malekandathil Pius, International Collaborative Research Project Goa Inquisition - Its norms and procedures of Justice: A Reader of Primary Sources (under the larger research frame of History, Memory and Society). This project funded by National Foundation for Science and Technology of Portugal carried out by a group of researchers from across the world with Prof. Teotonio R. de Souza (Universidade de Lusofona, Lisbon) as Research Coordinator, and Prof. Dauril Alden of Washington, and Prof. Anthony Disney of Melbourne, Dr. Paulo Aranha, European University Institute of Florence, Prof. Fernanda Camargo Moro (Director, MUSEION, Rio de Janeiro, Brasil), Dr. Ana Cunha, Lisbon and Pius Malekandathil(JNU) as members of the research team.
- Malekandathil Pius, International Collaborative Research Project, Cosmopolis: The Roots and Routes of Asian Port-cities. This is a pilot-project carried out under the co-ordination of Prof. Jos Gommans (Leiden University, the Netherlands) to explore the collective memory of Kochi through archives and heritage. The other members of the Research team are Professor Charles Jeurgens (Leiden University), Dr. Lennart Bes (National Archives The Hague), Dr. Bauke van der Pol (Anthropologist, Leiden), Dr. Pius Malekandathil (Jawaharlal Nehru University) and Dr Anjana Singh (Mumbai University).
- Pachuau Joy L.K., "Seeing the past, through the visual: the creation of a photographic archive of the Mizos", UGC Major Research Project, w.e.f 1 February, 2011 – 31 January, 2013.
- Pachuau Joy L.K., "Seeing the past, through the visual: the creation of a photographic archive of the Mizos", UGC Major Research Project, w.e.f 1 February, 2011 – 31 January, 2013.

### ***Centre for Informal Sector and Labour Studies***

- Kumar Avinash, A research project on B. R. Ambedkar: Thoughts on Reorganisation of States and Contemporary Relevance (with Sudha Pai) funded by Think Tank Initiative, IDRC, Canada and Indian Institute of Dalit Studies, New Delhi (completed).
- Kumar Avinash, A research project on "National Land Policy: The Challenges in Bihar", supported by Action Aid India and Ministry of Rural Development, New Delhi (completed).
- Kumar Avinash, A research project Mapping Citizenship in Delhi, (with Patrick Heller, Partha Mukhopadhyay et.al.) based at Centre for Policy Research, New Delhi, (Initiated).
- Himanshu, "India's Economic revolution: A Perspective from Six Decades of Economic Development in a North Indian Village" (with Centre de Sciences Humaines, New Delhi).
- Himanshu, "States Delivering for Poor People: Improving Outcomes through Stronger Evidence" (University of Manchester).

### ***Centre for Philosophy***

- Oinam, Bhagat, Project Coordinator (Principal Investigator) of a major project titled “Women in Traditional Worldviews and Institutional Practices: Aesthetic and Ethical Discourses in India’s Northeast”, funded by Indira Gandhi National Centre for Arts (IGNCA) for a period of 18 months (January 2012 – June, 2013).
- Oinam, Bhagat, One of the Researchers in project on Responses to Insurgency in the Northeast My contribution was to write a paper on the theme “Insurgency in Manipur.” The duration was from April, 2012 – March, 2013.
- Neog, Bhaskarjit UGC Inter-University Associateship in Indian Institute of Advanced Study, Shimla, from 2011-13. One month in each calendar year.

### ***Centre for Social Medicine and Community Health***

- Rao, M., “From the Margins to the Centre: The Contemporary History of Women’s Reproductive Health in India, 1977-2000.” Sir Ratan Tata Trust Small Grant. With Dr Sarah Hodges (University of Warwick), 2012-2015, Rs.3,66,000.
- Rao, M., “Science, Technology and Medicine in India, 1930-2000: The Problem of Poverty.” British Academy International Partnership Award. With Dr. Sarah Hodges (University of Warwick). 2010-2013, £29,975.
- Rao, M., “Reproductive Tourism in India: Actors, Agencies and Contemporary Transnational Networks”. A joint project of the Centre of Social Medicine and Community Health, JNU, SAMA – resource group for Women and Health, New Delhi, and King’s College, London, funded by UNFPA, Rs.3,86,000.
- Rao, M., “Psychosocial Study of Ragging in Selected Educational Institutions in India”, with Dr. Shekhar Seshadri (NIMHANS), Dr. Shobna Sonpar, Dr. Amit Sen (Members of the Supreme Court Committee on Ragging), funded by UGC, Rs.49 lakhs.
- Priya, R., “Developing a Socio-Medical Tool for Community Level Nutritional Surveillance.” a non-funded project of CSMCH/SSS and the South Asian Dialogues on Ecological Democracy- CSDS. Ongoing since 2010.
- Acharya, S. S., “Social Exclusion in Multiple Spheres- Examining issues in Access to Health Care Services in Selected States”. UNICEF-IIDS Project, New Delhi.
- Acharya, S. S., “Rickshaw pullers- An Analysis of the Rickshaw Sangh Program in Selected Cities.” Study sponsored by American India Foundation, New Delhi.
- Acharya, S. S., “Social Exclusion in Multiple Spheres- Examining issues in Access to Health Care Services in Selected States.” UNICEF-IIDS Project, New Delhi, 2011 (ongoing).
- Acharya, S. S., “Migrant women workers in construction and domestic spaces in Delhi Metropolitan Area: An analytical study of empowerment and challenges.” Ministry of Women and Child Development, Government of India (ongoing).
- Acharya, S. S., “Conservancy Workers in India and China” (ongoing).
- Baru, R. V., “The Assisted Reproduction Industry in India: Actors, Agencies and Contemporary Transnational Networks.” (JNU; SAMA and KCL).
- Baru, R. V., “Transnational Actors and the Commercialisation of Health Care: A China-India Comparative.” ICSSR funded in collaboration with the Institute for Chinese Studies, Delhi.
- Bisht, R., “The Assisted Reproduction Industry in India: Actors, Agencies and Contemporary Transnational Network”, (JNU, SAMA & KCL), UNFPA funded (Report Completed, 2013).
- Bisht R., “Demand-side financing measures to increase maternal health service utilisation and improve health outcomes: a systematic review of evidence from low- and middle-income countries”, (with Susan F Murray, Benjamin M Hunter, Tim Ensor and Debra Bick), AusAid Funded (Report Completed, 2013).

- Reddy, S., “Research Report on ‘Surrogacy in India: An ethnographic study in Hyderabad’”, submitted to Ministry of Women and Child Development.
- Reddy, S., Unit for IGNOU on ‘Women and Health’ for Dept. of Anthropology module on ‘Gender and Health’.
- Reddy, S., Ministry of Women and Child Development – grant to research on “Reproductive Tourism in India: An Ethnography on surrogacy in Hyderabad.”

### ***Centre for the Study of Regional Development***

- Banerjee Anuradha, “Discrimination of Dalits and Muslims in Urban Housing Market: A Study based on NCR, Delhi” Report Series, Number 57, 2012, Indian Institute of Dalit Studies, New Delhi. (with Firdaus Fatima Rizvi, Vinod Kumar Mishra)
- Banerjee Anuradha, Ongoing project on “Spatial Dimensions of Deprivation and Vulnerability in Kolkata Metropolis: Issues and Challenges to Slum Development Programmes”, sponsored by ICSSR, (ongoing)
- Banerjee Anuradha, Conducted a Consultancy Research project on “Discrimination of Dalits and Muslims in Urban Housing Market: A Study Based on NCR”, Delhi, sponsored by IIDS, New Delhi (ongoing)
- Das Bhaswati, Gendered Ageing Process in India: A Regional Perspective, University Grants Commission, July 2012
- Das Bhaswati, Factors Influencing Choice of Destination by International and Interstate Migrants in West Bengal- ICSSR (ongoing)
- Das Bhaswati, Gender Atlas sponsored by DST, Jointly with Saraswati Raju and Sucharita Sen, (ongoing)
- Kundu Amitabh, Report of the Technical Group on Urban Housing Shortage, (2012-17), Ministry of Housing and Urban Poverty Alleviation, Government of India, 2012 (Chairperson)
- Sood Atul, The Political Economy of Green Growth in India, Occasional Paper Five, United Nations Research Institute For Social Development, Geneva and Friedrich Ebert Stiftung, April, 2012 (with Payal Banerjee).
- Sood Atul, Health Services in Punjab: Dynamics of Inadequate Provisioning, People’s Perception and Policy Bias, Project Report Submitted to The Programme for the Study of Discrimination and Exclusion, Jawaharlal Nehru University, New Delhi, March, 2013
- Bathla S., Legal Instruments Governing Storage and Marketing of Foodgrains, FAO-NCAER Study, New Delhi (ongoing)
- Bathla S., Accelerating Private Investment and Competitiveness in Food Processing Industry in India: A State Level Analysis, World Bank study on AAA on India: Accelerating Agricultural Productivity Growth – Policy and Investment Options, (ongoing)
- Bathla S., The Foodgrain Stocking Policy, FAO-NCAER study on India’s Foodgrain Stocking Policy (ongoing)
- Bathla S., Crop diversification through contract farming and organized retail chains: prospects for higher income and employment’, funded by University Grants Commission (UGC) under Major Projects, 2009-2011 (ongoing)
- Das D. N., Conditions of the Aged Population in the New Regime of Demographic Transition: A Study on West Bengal, Sponsored by ICSSR, New Delhi. 2011-2013, (ongoing)
- Das D. N., Kolkata Urban Agglomeration: A Study on Change in Physical and Socio-economic Landscape, Sponsored by UGC, New Delhi 2011-2013 (ongoing)
- Dubey Amaresh, and Thorat S K, “How Inclusive Growth been During 1993/94-2009/10: Part-II: State Level Analysis”, UNDP, New Delhi, 2013 (ongoing)

- Dubey Amaresh, and Thorat S K, “How Inclusive Growth been During 1993/94-2009/10: Concept, Measurement, Performance and Implications for 12th Plan Strategy”, submitted to UNDP, New Delhi, 2012 (ongoing)
- Dubey, Amaresh, and Pala Veronica, “Social Structure and Educational and Employment Achievements: A Study of Disparities across Different Social Groups in India during 1983 and 2009- 10”, report submitted to the Indian Institute of Dalit Studies, New Delhi, 2013, (ongoing)
- Kulkarni P. M., “Assessing the Quality of Civil Registration System Data at the District Level on Regular Basis for facilitating updating the exercise of National Population Register”. UNFPA 2012-13 (ongoing)
- Mishra Deepak K., Seasonal Migration, Poverty and Livelihoods Diversification in Rural Orissa, sponsored by Indian Council of Social Sciences Research, New Delhi, 2010-13, (ongoing)
- Mishra Deepak K., Team Member, Oxford University Project on Resource, Greenhouse gases, Technology and Jobs in India’s Informal Economy: The Case of Rice, 2012-13 (ongoing)
- Padmini Pani, Major Research Project entitled “Scale Variant Geo-Spatial Feature Mapping using Spatio-Temporal Data in and around Parvati River Basin, Himachal Pradesh”, sponsored by the Defence Research and Development Organisation, Ministry of Defence, Government of India, 2010-2013, (ongoing)
- Padmini Pani, Associations of American Geographer (AAG) Research Fellowship Grant under MyCOE/SERVIR Programme on Climate change on Himalaya 2013 (ongoing).
- Punia Mila, Geovisualisation of landscape and e-learning course-sponsored by Department of Science and Technology, Government of India, New Delhi, (ongoing)
- Punia Mila, Snow spectral properties and Regional climate--sponsored by Department of Science and Technology, Government of India, New Delhi (ongoing)
- Punia Mila, Subaltern Urbanization in India- French National Agency for the Research in Social Sciences. (ongoing)
- Punia Mila, Spatial Governance of Panchayati Raj Institutions- sponsored by Indian Council of Social Sciences Research, New Delhi. (ongoing)
- Raju S., (with Sucharita Sen and Bhaswati Das) Gender Atlas, Department of Science and Technology, Government of India, New Delhi. (ongoing)
- Sharma M. C., Snow & Glaciers-Phase-II. Space Applications Centre/ISRO Ahmedabad, (ongoing)
- Sharma M. C., Desertification Status Mapping-II Cycle. Space Applications Centre/ISRO Ahmedabad, (ongoing)
- Sharma M. C., Himalayan Cryosphere- Science & Society. Climate Change Programme, DST, (ongoing)
- Sreekesh S., Scoping study for S&T Interventions for improving livelihood options and income in selected village cluster in Mewat region” supported by Dept. of Science and Technology, Government of India (ongoing)
- Sen S., Inter University Consortium on Cryosphere and Climate Change (IUCCCC) project of “Himalayan Cryosphere: Science and Society”, funded by DST, (ongoing)
- Sen S., ‘Gender Atlas’ Funded by DST, Government of India, (ongoing)
- Sen S., Consultant to NCAER in India: e-Readiness Assessment Report 2012, (ongoing)
- Srivastava R., University Grants Commission, Higher Education in the Eleventh Plan – An assessment of financing requirements based on an analysis of access, equity and quality indicators, (ongoing)
- Srivastava R., Economics and Social Research Council (UK), Globalisation and Labour Standards in India and China (with School of Oriental and African Studies and Hongkong Polytechnic University, China) (ongoing)

- Thorat S. K., Social Exclusion and Rural Poverty .A Study of Interlinkages in seven most Poor State, sponsored by DFID, Delhi, (ongoing)
- Thorat S. K., Inclusive Growth in India -Experience of 1993/4-2009/10 ( with Ambresh Dubey) UNDP, Delhi, (ongoing)
- Thorat S. K., Inclusive Policies in Education, Health and Food Security schemes - National and International Experience UNICEF, Delhi (with Nidhi Sadana), (ongoing)
- Thorat S. K., Dalit in Maharashtra- A Study in Human Development, Sponsored by Ambedkar Research Institute, Pune, (ongoing)
- Thorat S. K., Patterns of Discrimination in Higher Education –A study of selected Education Institutions, Christen Aid, 2012, (ongoing)
- Thorat S. K., Special Component Plan Of Scheduled Caste and Scheduled Tribe – Guidelines and Principles for Implementation, Christen Aid, 2012, (ongoing)
- Zutshi B., Conflict Situation in Jammu and Kashmir: Its Impact on the livelihoods of the Gujjar and Bakarwal Tribes, sponsored by Indian Council for Social science Research- ICSSR, New Delhi –March 2013- March 2015, (ongoing)
- Zutshi B., Regions and Regionalism in India: Issues and Concerns, sponsored by Rajiv Gandhi Institute for Contemporary Studies, May, 2012 – June, 2013 (ongoing)

#### ***Centre for the Study of Social Systems***

- Singh Yogendra, 5th Research Survey in Sociology and Social Anthropology (2001-2009), Indian Council of Social Science Research, New Delhi, (2001-onwards)
- Kumar Anand, UGC-DAAD PPP Study of Globalization and Reception of Ayurveda in Germany, University Grants Commission, New Delhi (2008-2012).
- Kumar Anand, IIPA and others study of chronic poverty in India, IIPA, New Delhi (2008-onwards)
- Kumar Anand, Building Global Democracy – A Study Group of Researchers from 10 countries, Building Global Democracy Programme, Centre for the Study of Globalisation and Regionalization, University of Warwick, UK (2009-onwards)
- Kumar Anand, ICSSR Committee on Research in Sociology and Social Anthropology (2012) Nongbri Tiplut, Working on self-sponsored project
- Visvanathan Susan, Water, Agriculture, Small Towns and Colonialism • Rodrigues Edward A., Disaster Management
- Singh Renuka, Editing Prof. R.K. Jain’s Festschrift volume.
- Sharma Amit K., Cinema and Culture in India, Self-Financed.
- Mehrotra Nilika, Methodological Issues in disability research.
- Mehrotra Nilika, Disability Studies in South Asia.
- Kumar Vivek, Changing Nature of Caste: Articulations, Institutions and Settlements, Indian Council for Social Science Research, March 2013
- Kumar Vivek, DAAD-UGC Project with Prof. Boike, Humbolt- University under class in Germany and Dalits in India
- Naraindas Harish, Asymmetrical Translations : Mind, Body and Spirit in European and Indian Medicine
- Akoijam A. Bimol, Intellectuals and Politics: On ideology and political actions (Hitherto self-financed research work, which is in the process of seeking financial support from the ICSSR)
- Srinivas G., Global Perspectives on Learning and Development with Digital Video-Editing Media: A Qualitative Inquiry in Everyday Lives of Marginalized Young People sponsored by European Commission Research Executive Agency under Marie Curie International Research Staff Exchange Scheme (May 2012 to April 2014)
- Srinivas G., Changing nature of Caste: Articulations, Institutions and Settlements, March 2013

- Vaid Divya, Project Director of an Indian Council of Social Science Research funded Research Project “Educational Inequalities and Social Mobility – A Tale of Two Cities,” based at CSDS (2011-2013)

#### **Centre for Women 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.
- Roy Mallarika Sinha, ‘Gender and Politics in Colonial Coochbehar’ is an ongoing project. This semester a considerable progress has taken place, especially in terms of defining the research questions and clarifying the interdisciplinary methodology. The first round of field work will take place in June-July 2013.

#### **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. 2010-2013. Continuing.
- Khadria Binod, “India Profile: International and Circular Migration”. IOM, New Delhi. 2011-2015. Continuing.
- Khadria Binod, RPIM, Ministry of Overseas Indian Affairs, GOI, New Delhi. 2008-2013.
- Panda Minati, Project Director, “Multilingual Education Resource Consortium”, Funded by UNICEF, Delhi, 2013-2015.
- Panda Minati, Project Director, “Mother Tongue Based Multilingual Education in India: A Longitudinal Study in Andhra Pradesh and Orissa”, Funded by NCERT, New Delhi.
- Panda Minati, Director, “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, “National Multilingual Education Resource Consortium” (NMRC), JNU, Funded by UNICEF, India, 2013-15.
- Khadria Binod, With Ecole Polytechnique Federale de Lausanne (EPFL), Lausanne and Institute for Development Studies Kolkata (IDSK), Kolkata.
- Nambissan Geetha B, Research Partner in the Transnational Research Group (TRG) formed for the Study of “Poverty Reduction and Policy for the Poor between the State and Private Actors. Education Policy in India since the Nineteenth Century” funded by the Max Weber Foundation. Other partners: Faculty from Centre for Historical Studies, JNU: German Historical Institute London, University of Gottingen, Germany and Kings College London, 2012-2017.
- Panda Minati, Director of the Western-JNU collaboration (Western University, Ontario, Canada and Jawaharlal 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, Research Collaboration with Prof. Titiana Qcanskaria from University of Hamberg in the Research Project titled “Urban MLE: Issues and Dialogues”, 2012-2014.

#### **Group of Adult Education**

- Shah S.Y., A comparative study of the Professional Organizations in Adult Education in India and Germany, sponsored by the ASEM Network on Professionalization of Adult Education, 2013-14 (ongoing)
- Shah S.Y., Designing a Programme on Validation, Accreditation and Recognition (RVA) of Prior Learning of Adult Educators in India, sponsored by the ASEM Network Professionalization of Adult Education, 2013-14 (ongoing).
- Kejriwal S. K., "Zero Female Tribal Literacy: A Study of Selected Villages of Madhya Pradesh", (self funded) (Continuing)
- Paul M.C., Ministry of Consumer Affairs Research Study on "Consumer Redressal System: Challenges and Opportunities".
- Kumar Ajay, Research projects Undertaken - 'Developing Participatory Enterprises and Strategies in Community Engagement in Bridging the Urban - Rural Gap in Energy' under the project 'Rural Hybrid Energy Enterprise Systems (RHEES) - Bridging the Urban and Rural Divide', an international collaborative project funded by UK-India Sustainable Energy Technologies Network (ongoing).

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

- Jayal, Niraja Gopal, Co-Director of Asian hub for the Princeton University project on "State-Building in the Developing World", 2009 – 13
- Singh Amita, A Behavioral Study of Voters in UP (Census Commissioner's Office, Government of India, Lucknow)
- Singh Amita, Impact of FDI on Land (in collaboration with Essex University, UK)
- 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.

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

- Mukhopadhyay G. (Project Investigator on behalf of the Centre) "Emerging Areas in Molecular Medicine" Indian Council of Medical Research (ICMR), 2012-2017
- Mukhopadhyay C. K., "Studies on regulation of mammalian iron transporter transferrin receptor by catecholamines", Council of Scientific and Industrial Research (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", Department of Biotechnology (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" Department of Biotechnology (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) Department of Biotechnology (DBT), 2012 – 2013
- Mukhopadhyay C. K., "Role and regulation of ceruloplasmin in glial cells in response to norepinephrine" Department of Biotechnology (DBT), 2012 – 2014
- 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, 2012 –2015

- 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., “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 inhibitors” Department of Biotechnology (DBT), 2011 – 2014.
- Ghosh D., “Studies on the regulation of adipose tissue development and function by post-translational protein afinitylation”, Department of Biotechnology, 2013 – 2016

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

- Rao C Upender, Translation project (translation of English text in to Sanskrit) from Rastriya Sanskrit Sansthan, New Delhi 2012 – 2013
- Rao C Upender, Translation project from Indian council of philosophical research, (English translation of Sanskrit text Panjika), New Delhi
- Jha Girish Nath, Indian Languages Corpora Initiative (ILCI) phase2, as Director and Leader for a 17 university consortium funded under the Technology Development for Indian Languages (TDIL) program by the Ministry of Communications and Information Technology (MCIT), September, 2012 (onwards)
- Jha Ram Nath, Mentor, Innovation Project IP 101 awarded to Sanskrit and Psychology Department, Indraprastha College for Women titled To Prepare a Glossary of Technical Terms in Yoga Philosophy, funded by University of Delhi, Delhi, 15 May, 2012 – 15 July, 2013.

## **APPENDIX II: RESEARCH SCHOLARS AWARDED DEGREE (01.04.2012 – 31.03.2013)**

### ▪ **DOCTOR OF PHILOSOPHY (PH.D)**

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

1. Ms Hazra Imran, On Pseudo Relevance Feedback Based Approach for Automatic Query Expansion, Dr Aditi Sharan, 6.07.2012
2. Ms Bhawana, Data Warehouse for Data Stream, Prof Parimala N, 10.10.2012
3. Ms Rekha Kashyap, Design and Analysis of Security: Aware Scheduling Models for Computational Grid, Dr D P Vidyarthi, 16.11.2012
4. Mr Kapil, Study of Support Vector Machine and Extreme Learning Machine Methods for Regression Problems, Prof S Balasundaram, 27.12.2012
5. Mr Pinaki Chakraborty, A Compiler Technology Based Approach to Simulation of Basic Forms of Automata, Prof C P Katti & Prof P C Saxena, 11.01.2013
6. Ms Anshu Dixit, Classification of Spatial Data: Machine Learning Techniques, Prof Sonajharia Minz, 29.01.2013
7. Mr Prasad Naik Hamsavath, Object Location in Cluster Based Manet, Prof G V Singh, 01.02.2013
8. Mr Sanjoy Das, Geocasting in Vehicular Ad Hoc Networks, Dr. D K Lobiyal, 26.02.2013
9. Mr Abhinav Gupta, Statistical Modeling of Backscatter Envelope in Ultrasound Imaging, Prof. Karmeshu, 1.03.2013
10. Mr Ajay Jaiswal, A Statistical Framework for Face Recognition, Dr R K Agrawal, 12.03.2013

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

11. Mr Aditya Kumar Pathak, Heavy Metal Pollution of Soil in Faridabad Industrial Area in Haryana, Dr. Sudesh Yadav, 11.07.2012
12. Mr Sayantan Sarkar, Profile Analysis of Particulate-Bound Polycyclic Aromatic Hydrocarbons and Trace Metals in the Vicinity of Coal-Fired Power Plants in Delhi, Prof P S Khillare, 16.07.2012
13. Mr Surendra Kumar, GIS Based Spatial Modeling of Noise Pollution: A Case Study of Delhi, Dr. Krishan Kumar, 01.08.2012
14. Mr Pratap Singh, Isolation, Identification and Characterization of Salt Tolerant Gene from Root Endophyte Fungus Piriformospora indica, Dr Meenakshi Dua, 24.07.2012
15. Mr Abhishek Kumar Gupta, Regulation of Ribosomal RNA Transcription and Processing in Entamoeba histolytica, Prof Sudha Bhattacharya, 19.12.2012
16. Mr Nishant Singh, DNA Dynamics during the Differentiation of Trophozoite to Cyst in Entamoeba invadens, Prof Sudha Bhattacharya, 21.12.2012
17. Ms Vandana Kumari, Genomic Distribution and Expression of the Retrotransposable Element SINE1 in Entamoeba, Prof Sudha Bhattacharya, 22.12.2012
18. Ms Madhuri Singh, Antimicrobial Activity and Mechanism of Alpha-Melanocyte Stimulating Hormone against Staphylococcus aureus, Dr Kasturi Mukhopadhyay, 08.01.2013
19. Mr Umesh Chandra Naik, Bioremediation and Detoxification of Chromium in Electroplating Effluent by Microorganisms, Prof Indu Shekhar Thakur, 04.02.2013
20. Mr Amit Singh, Remote Sensing Approach to Study Morphotectonic Influences on Hydrogeoenvironment in the Vicinity of Faridabad Fault Across River Yamuna Basin, Prof S Mukherjee, 18.02.2013
21. Ms Rashmi Kumari, Prospection of Alternative Plant Resources from Aravali Range for Biodiesel Production, Prof V K Jain, 04.03.2013

22. Ms Shweta Yadav, Quantitative Estimation of Elements and Carbonaceous Species in Ambient Aerosols and their Coupling with Local Meteorological Factors, Prof Arun K Attri, 04.03.2013
23. Mr Sandeep Kumar Agnihotri, The Regulation of Cadmium Mediated Stress Response in Mammalian System, Dr Ilora Ghosh, 06.03.2013

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

24. Ms Popy Dutta, Characterizing the Mechanism of Inhibition Mediated by Modified Aminoglycosides Inhibitors of the SWI/SNF Family of DNA-Dependent ATPases, Dr Rohini Muthuswami, 11.05.2012
25. Mr Ajeet Mandal, Molecular Characterization of Multidrug Efflux Pump Proteins of *Candida albicans*, Prof Rajendra Prasad, 17.05.2012
26. Mr Deepak Kumar Arya, Identification and Characterization of Surface Proteins as Vaccine Candidates against Group A Streptococcus of Indian Origin, Dr Atul Kumar Johri, 13.07.2012
27. Mr Shafat Ali, Host Genetic Susceptibility to Leprosy-A Study of Pro-Inflammatory Cytokine Gene Polymorphisms, Prof R N K Bamezai, 19.09.2012
28. Ms Sanjiveeni Dhamgaye, Regulation of MDR (Multidrug Resistance) in Yeast, Prof Rajendra Prasad, 03.10.2012
29. Ms Saima Aslam, Expression and Functional Characterization of EhCaBP3, a Novel Calcium Binding Protein of *Entamoeba histolytica*, Prof Alok Bhattacharya, 19.10.2012
30. Mr Pynskhem Bok Swer, Exploring the TOR Signalling Pathway in *Dictyostelium discoideum*, Dr Shweta Saran, 19.10.2012
31. Mr Sita Ram Meena, Structural and Functional Analysis of Transporter Associated With Antigen Processing (TAP) and M Tuberculosis DprE1/E2 Proteins, Dr Ajay Kumar Saxena, 25.10.2012
32. Mr Anil Kumar Verma, Studies on Influence of Gut Bacterial Flora and *Entamoeba* Species on Clinical Outcome of Amoebiasis, Dr Jaishree Paul & Dr Vineet Ahuja, 22.11.2012
33. Mr Sudhir Kumar, Structural and Functional Studies of Serine Acetyl Transferase(s), Dr Samudrala Gourinath, 22.11.2012
34. Ms Neha Biyani, Identification of Potential Drug Targets and Resistance Mechanisms in *Leishmania*, Prof Rentala Madhubala, 30.11.2012
35. Mr Ashutosh Singh, Antifungal Resistance: A Lipidomics Approach, Prof Rajendra Prasad, 26.12.2012
36. Mr Akhil Varshney, Studies on Molecules Interacting with Telomerase, Prof P K Yadava, 31.12.2012
37. Mr Rishikesh Kumar, Role of Ornithine Decarboxylase in the Development and Differentiation Programme of *Dictyostelium Discoideum*, Dr Shweta Saran, 17.12.2012
38. Mr. Manoj Kumar, Isolation, Identification and Characterization of Promoter Region of Phosphat Transporter (PiPT) Gene from Root Endophyte Fungus *Piriformospora Indica*, Dr. Atul Kumar Johri, 21.12.2012.
39. Ms Isha Raj, Structural and Functional Studies of Cysteine Biosynthetic Enzyme: O-acetyl serine Sulfhydrylase, Dr S Gourinath 31.12.2012
40. Mr Manish Gupta, A Study of Interferon Regulatory Factor (IRF)-1 in Mouse Bone Marrow Cells, Prof P C Rath, 10.01.2013
41. Mr Nitin Bhardwaj, Mechanism of Modulation of Erythropoiesis and Erythrocytes Turnover in Mice in Response to Oxidative Stress Induced by the Herbicide Paraquat, Prof R K Saxena & Dr Niti Puri, 22.01.2013
42. Mr Deepak Kumar Singh, A Study of the Long Interspersed Nuclear Element (LINE) from the Rat Genome: Sequence and Expression Analysis, Prof P C Rath, 23.01.2013
43. Ms Namrata Kharbash, Regulation of Oxidative Stress in Plants, Prof B C Tripathy, 06.02.2013

44. Mohd Askandar Iqbal, Biological Relevance of Natural Mutations in Intersubunit Contact Domain of Human Pyruvate Kinase M2, Prof R N K Bamezai, 12.02.2013
45. Ms Sumedha Sachar, Interaction of Carbon Nanotubes and their Chemically Derived Forms with Murine Erythroid and Lymphoid Cells in vitro and in vivo, Prof R K Saxena & Dr Niti Puri, 07.02.2013
46. Mr Anil Mittal, Combinatorial Anticancer Effects and Associated Mechanisms of Berberine from *Tinospora cordifolia*, Dr Rana Pratap Singh, 1.03.2013
47. Ms Pooja Chauhan, Characterization of Variants of Mouse SG2NA, Prof Shyamal K Goswami, 11.03.2013
48. Ms Malika Saint, Elucidating the Structure-Function Requirement of TAF9 Coactivator in Transcriptional Activation, Dr K Natarajan, 20.03.2013

### **School of International Studies**

49. Ms Manisha Sinha, the World Trade Organization and Exceptions to the Principle of Non-Discrimination: A Study of Institutional Responses, Dr Archana Negi, 04.04.2012.
50. Mr Jashobanta Pan, Problems of Internally Displaced Persons (IDPs) and Stateless Persons (SPs) in Sudan 1956-2006, Prof Ajay Dubey, 24.04.2012
51. Ms Ainura Aitibaeva, Language, Culture and Identity in Kyrgyzstan, Dr Sharad K Soni & Prof Nirmala Joshi, 02.05.2012
52. Mr Arun Vishwanathan, Ambiguity in India's Nuclear Decision Making, 1962-1998, Prof Swaran Singh, 03.05.2012
53. Mr Ajay Kumar Upadhyay, Political Liberalisation in Gulf Co-Operation Council (GCC) States: A Case Study of Oman (1991-2009), Dr Aswini Kumar Mohapatra, 11.05.2012
54. Mr Amit Ranjan Sharma, Micro-Credit and the Making of Uzbek Nationalism: Role of the Desjardins Movement, Prof Abdul Nafey, 16.05.2012
55. Mr Khundongbam Alexander Singh, Conflict Resolution and Peace-Building Process in El Salvador, 1990-2009, Prof Abdul Nafey, 14.05.2012
56. Ms Geetanjali Dutta, Socio-Economic and Political Status of Women in Russia, 1991-2008, Prof Arun Mohanty, 16.05.2012
57. Mohd Faisal, Japanese Foreign Direct Investment in China: A Case Study of Manufacturing Sector, 1991-2006, Dr Srabani Roy Choudhury, 21.05.2012
58. Ms Sanchita Bhattacharya, Madarsa Education in India, Pakistan and Bangladesh: A Comparative Study, Prof Uma Singh, 05.06.2012
59. Mr Gyana Ranjan Panda, Citizen Diplomacy in the US Foreign Policy: Jimmy Carter's Role in Haitian and North Korean Crises, Prof Pushpesh Pant & Prof Chintamani Mahapatra, 08.06.2012
60. Mr Ramakrushna Pradhan, Politics of Energy in Central Asia: Implications for India, 1991-2008, Dr Phool Badan, 13.06.2012
61. Ms Balraj Kaur Sidhu, International Environmental Dispute Settlement with Special Reference to the Proposed Environment Court, Prof Bharat H Desai, 18.06.2012
62. Ms Dhanika Sharma, Terrorism as a Non-Traditional Security Issue in Southeast Asia: Role of ASEAN, Prof Ganganath Jha, 19.06.2012
63. Ms Smita, India's Diaspora Policy, 1999-2008: A Study of Evolution, Objectives and Principles, Prof P Sahadevan, 13.06.2012
64. Mr Krishnendra Meena, British Geostrategic Perspectives on the Southern Atlantic Region, Prof Swaran Singh, 31.07.2012
65. Mr Laxman Kumar Behera, Natural Gas Market in West Asia and North Africa: Prospects for India, Prof Girijesh Pant, 31.07.2012
66. Mr Stanly Johny, Hezbollah and Asymmetric Warfare in Lebanon, Prof Gulshan Dietl, 13.08.2012

67. Mr Dinoj Kumar Upadhyay, European Development Assistance in Afghanistan since 2002, Dr Gulshan Sachdeva, 24.08.2012
68. Mr Rajan Bhattarai, Changing Security Perceptions of Nepal, Prof Mahendra P Lama, 05.09.2012
69. Ms Anu Prasanna, Implementation of the United Nations Convention on Disability: A Case Study of India, Dr V G Hegde & Prof Y K Tyagi, 10.09.2012
70. Mr Sitakanta Rout, US-India Hi-Technology Cooperation, 2001-2008, Prof K P Vijayalakshmi, 10.09.2012
71. Ms Priya Naik, A Constructivist Analysis of India's Climate Change Diplomacy: A Study of Norms, Prof Pushpesh Pant, 10.09.2012
72. Mr Cheetar MalMeena, Geostrategic Dimensions of International Boundaries: A Critical Analysis of Pakistan's Boundaries with Afghanistan and Iran, Dr S S Deora & Dr Krishnendra Meena, 14.09.2012
73. Ms Sweta Singh, Portrayal and Empowerment as Concerns of Nepal's Media Coverage of Women, Prof Mahendra P Lama, 05.09.2012
74. Mr P Anbarasan, The European Union's Cultural and Audiovisual Policy: A Discourse towards Integration Beyond Borders, Prof Christopher S Raj, 26.09.2012
75. Mr Tara Prasad Joshi, Political Transition in Russia and Nepal, 1990-2009: A Comparative Perspective, Dr Sanjay Kumar Pandey, 16.10.2012
76. Mr Girija Prasad Mohanty, Environmental Issues and Policies in Central Asia, 1991-2009, Prof Ajay Kumar Patnaik, 02.11.2012
77. Ms Monika Batham, Fertility Decline in Russia 1992-2008, Prof Anuradha M Chenoy, 02.11.2012
78. Mr Deep Narayan Pandey, Geopolitics of Transit Routes for Landlocked Countries: A Comparative Study of Ethiopia and Nepal, Prof Swaran Singh, 09.11.2012
79. Ms Syeeda Khatoon , Bilateral Free Trade Agreements between USA and Israel, Jordan, Bahrain: Comparative Study, Prof Girijesh Pant, 14.11.2012
80. Mr Dhruvajyoti Bhattacharjee, Foreign Policy Decision Making in Pakistan: A Study of the Military Regimes Since 1977, Prof Savita Pande, 16.11.2012
81. Mr Naresh Kumar Verma, Nuclear Programmes of North Korea and Iran: A Comparative Geopolitical Analysis, Dr S S Deora, 03.12.2012
82. Mr Uttam Kumar, Failure of Mujibur Rahman's Policies and Emergence of Military Regimes: A Study of Post-Mujib Discourse in Bangladesh Politics (1975-2008), Dr Sanjay Kumar Bhardwaj, 20.12.2012
83. Ms Dorothy Roy Chowdhury, External Economic Reforms: A Comparative Study of Central Asian Republics and India, 1991-2006, Dr Tahir Asghar, 20.12.2012
84. Mr Rakesh Kumar Meena, Nepali Constitution Ka Tulnatmak Adhyayan 1948, 1959, 1962 Aur 1990 Ke Constitution Ke Vishesh Sandarbh Mein, Prof Savita Pande, 20.12.2012
85. Ms Aparajita Mazumdar, The UN System and Global Food Security: A Study of the Right to Food, Policy Advice and Food Aid, Dr Archana Negi, 26.12.2012
86. Mr Ramesh Kumar, Transcaucasian States and the European Union: Strategic and Economic Relations, 1991-2010, Prof Tulsi Ram, 28.12.2012
87. Mr Abas Basir, Liability for Environmental Damage with Special Reference to Armed Conflicts, Prof Bharat H Desai, 18.06.2012
88. Mr Vijay Kumar Badetia, Political Reforms in Senegal, 1991-2006, Prof S N Malakar, 30.08.2012
89. Mr Arup Kumar Deka, Migration and Conflict: A Comparative Study of Bangladeshi and Nepali Migrants in Assam, Prof Mahendra P Lama, 05.09.2012
90. Ms Badaplin Lyngkhai, Issues of Monetary Policy Co-ordination in the New Member States of the EU: The Case of Hungary and Poland, Dr Gulshan Sachdeva, 19.09.2012
91. Mr Himmat Singh Deora, EU-India Strategic Partnership, 2004-2009, Dr Gulshan Sachdeva, 19.09.2012

92. Ms Vinita Meena, vQxkfuLrku esa lafo/kku dk fodkl ,oa lkekftd o jktuhfrd dkjdxsa dh Hkwfedk, Dr Ambrish Dhaka, 28.12.2012
93. Mr Anurag Tripathi, Kazakhstan-China Relations, 1991-2009, Prof K Warikoo, 10.01.2013
94. Mr Abhay Kumar, Regional Identity and Separatism: A Comparative Study of Chechnya and Kashmir, 1991-2009, Prof Ajay Patnaik, 10.01.2013
95. Mr Pramod Kumar Sharma, Role of Ethnic Groups in the Peace-Building Process in Afghanistan:The Post-Bonn Period, Dr Mondira Dutta, 10.01.2013
96. Mr Punit Gaur, Ethnic Stratification, Clan Politics and Nationalism in Kazakhstan, 1991-2009, Prof K Warikoo, 10.01.2013
97. Mr T C Karthikheyan, Non-Traditional Security Challenges to Maldives, 1988-2008, Prof P Sahadevan, 29.01.2013
98. Mr Girish Chandra Mallik, Democracy Promotion during the Bush Administration: 2001-2008, Prof Chintamani Mahapatra, 30.01.2013
99. Mr Lee Ji Hoon, Legal and Institutional Framework for Sustainable Development: A Case Study of UN Commission on Sustainable Development, Prof Bharat H Desai, 07.02.2013
100. Mr Ameswar Naik, Political Reforms in Burkina Faso, 1991-2007, Prof S N Malakar, 07.02.2013
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### **School of Arts and Aesthetics**

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573. Ms. Uma Arya, "Soma Evam Ayahuaska: Eka Samskratika Adhyayana", Dr. C. Upender Rao, 05.12.2012
574. Mr. Anil Kumar, "Mana Ka Darsanika Adhyayana: Bhagavadgita Evam Dhammapada Ke Visesa Sandarbha Mem", Prof. C. Upender Rao, 27.11.2012
575. Mr. Rohit Kumar Singh, "Kautilya-Arthasastra mem Varnita Rajya ki Arthika niti ka Vislesana: Striyon ke Visesa Sandarbha mem", Dr. Santosh Kumka Shukla & Dr. Ashok Kumar, 10.12.2012
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612. Ms. Sajitha A, "Performance of Commercial Crops in Kerala: A Study of Black Pepper with Focus on Non Price Factors", Prof. K.j. Joseph, 27.11.2012
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619. Mr. Siamlal T.A., "Fiscal Transfers and Borrowing: Disparities among States in the Indian Federation", Dr. K. N. Harilal, 05.03.2013
620. Ms. Soumya Maria, "Foreign Banks in India: Trends, Pattern of Growth and Implications for Credit Stability", Prof. Sunil Mani & Dr. M. Parameswaran, 26.03.2013
621. Ms. Kavitha P, "Outward Foreign Direct Investment from India: An Analysis of its Characteristics and Pattern of Financing", Prof. Sunil Mani & Dr. M. Parameswaran, 26.03.2013

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### School of Computer & System Sciences

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33. Mr. Sahil Pathak, "Mobility Based Secure Routing Protocol for Wireless Sensor Networks", Prof. C.P. Katti, 13.02.2013
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#### **School of Computational and Integrative Sciences**

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38. Mr. Ravi Shanker Pandey, "Inactivation Domains in Mammalian X Chromosome: Markov Segmentation Analysis", Prof. Ram Ramaswamy, 12.07.2012
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40. Mohammad Sultan Alam, "Analysis of Sequence Polymorphism of LINEs and SINEs in *Entamoeba histolytica*", Prof. Alok Bhattacharya, 18.12.2012
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**APPENDIX II: LINKAGES DEVELOPED WITH NATIONAL/INTERNATIONAL,  
ACADEMIC/RESEARCH BODIES  
(01.04.2012 – 31.03.2013)**

**Agreement of Cooperation (AOCs) signed 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 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, Riga, 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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