



Jawaharlal Nehru University
New Delhi
INDIA



PROSPECTUS



**Academic Session
2015-16**



www.jnu.ac.in

Check List

- ☞ **PLEASE REFOLD THE APPLICATION FORM ONLY WHERE IT WAS ORIGINALLY FOLDED. DO NOT STAPLE, PIN OR STITCH ANY DOCUMENTS WITH THE APPLICATION FORM. SEND THE BANK DRAFT IN THE ENVELOPE PROVIDED. KEEP IT LOOSE ALONG WITH THE APPLICATION FORM INSIDE THE ENVELOPE.**

Before posting the completed application form please check that:

- ☞ You have filled in the Application Form in your own handwriting.
- ☞ You have noted down your Application Form Number for future correspondence or retained a photocopy of the filled in Application Form.
- ☞ Your Application Form is complete in all respects.
- ☞ You have firmly affixed the recent (not more than two months old) passport size photograph in the Application Form.
- ☞ You have signed the application form in the space marked for signature.
- ☞ **You fulfil the eligibility requirements as prescribed by the University for the disciplines/field(s) of study you are applying for. Please note that permission to appear in the entrance examination is subject to your fulfilling minimum eligibility requirements prescribed for admission to the concerned programmes of study and as notified in the Prospectus. You may therefore appear in the entrance examination only if you fulfil the eligibility requirements for the programmes for which you are seeking admission. Despite this caution, in case you do not meet the minimum eligibility criteria prescribed for the concerned programmes and appear in the entrance examination, you will do so at your own risk and cost, and if at any stage, it is found that you do not fulfil the minimum eligibility requirements, the admission, if granted to you, shall be cancelled ipso facto.**
- ☞ You have enclosed the Demand Draft of the required amount (based on the number of choices you are applying for) drawn in favour of **JAWAHARLAL NEHRU UNIVERSITY** payable at **New Delhi** towards Entrance Examination/ Processing Fee as mentioned below:

Amount of Demand Draft					
Number of Choices	M.Phil./M.Tech./MPH/ Pre-Ph.D./Ph.D., M.A., M.Sc., M.C.A.		B.A. (Hons.) 1st & 2nd year and all Part Time programmes		Foreign Nationals
	General Category including OBC Rs.	SC/ST/PWD/ BPL Rs.	General Category including OBC Rs.	SC/ST/PWD/ BPL Rs.	
For 1 Choice	220.00	110.00	130.00	65.00	US\$ 25/- or Rs.1550/-
For 2 Choices	430.00	215.00	250.00	125.00	US\$ 50/- or Rs.3100/-
For 3 Choices	600.00	300.00	360.00	180.00	US\$ 75/- or Rs.4650/-

(Please refer to page no. 84 of the Prospectus for examination fee)

(For Processing Fee for direct admission to Ph.D. programme and admission under JRF category, please refer to page no. 84 of the Prospectus)

Note :

1. You can opt for appearing in the Entrance Examination upto a maximum of three fields of study of your choice for the **same level of programmes** to be indicated in the same Application Form in order of preference for admission.
 2. If you submit more than one Application Form **for the same level of programmes**, all your Application Forms shall be summarily rejected. However, this restriction will not apply to (i) those JRF holder candidates who apply for admission in Science Schools under "JRF category" for admission to M.Phil./Ph.D. or Pre-Ph.D./Ph.D. through viva-voce examination in addition to admission through entrance examination; and (ii) candidates who apply for direct admission to Ph.D. programme.
- ☞ Offline Application Forms can be submitted only by Registered Post/Speed Post to Section Officer (Admissions), Room No.28, Administrative Block, Jawaharlal Nehru University, New Delhi - 110067 latest by 25th March, 2015. JNU will not accept responsibility for any postal delay or irregularity or loss in postal transit.

PLEASE DO NOT SEND YOUR APPLICATION FORM THROUGH PRIVATE COURIER SERVICES OR ANY OTHER POSTAL MODE EXCEPT REGISTERED POST/SPEED POST

- **Any dispute with regard to any matter relating to admission shall be subject to the jurisdiction of Delhi Courts only.**

JAWAHARLAL NEHRU UNIVERSITY

NEW DELHI-110067

www.jnu.ac.in

PROSPECTUS

**ACADEMIC SESSION
2015-16**

"A university stands for humanism, for tolerance, for reason, for the adventure of ideas and for the search of truth. It stands for onward march of the human race towards ever higher objectives. If the Universities discharge their duties adequately, then it is well with Nation and the people"



CONTENTS

Section	Page
I. General	1
II. Schools and their Programmes of Study	
1. School of International Studies	4
2. School of Language, Literature and Culture Studies	9
3. School of Life Sciences	18
4. School of Social Sciences	21
5. School of Environmental Sciences	34
6. School of Computer & Systems Sciences	35
7. School of Physical Sciences	37
8. School of Computational and Integrative Sciences	38
9. School of Arts & Aesthetics	39
10. School of Biotechnology	41
11. Centre for Sanskrit Studies	42
12. Centre for Molecular Medicine	43
13. Centre for the Study of Law & Governance	44
14. Centre for Nano Sciences	46
III. Reservation of Seats for SC/ST/OBC Candidates	46
IV. Reservation of Seats for Person with Disability (PWD)	46
IVA. Guidelines for providing writer to the Blind candidates	46
V. Deprivation points	47
VA. Supernumerary quota for students from Jammu & Kashmir	47
VI. Travel Concession for viva voce examination	51
VII. Library	51
VIII. Fellowships/Scholarships/Awards	53
IX. Facilities for Field Work	55
IXA. Linguistic Empowerment Cell	56
X. Hostel Facilities	56
XI. University Health Centre	57
XII. University Employment, Information and Guidance Bureau	58
XIII. (a) Games and Sports	58
(b) Cultural Activities	59
(c) Policy against Sexual Harassment	59
(d) Anti Ragging Policy of the University	59
(e) Rules of Discipline and proper conduct of students of JNU	61
(f) Previous Years Question Paper	63
XIV. Fees and Mode of Payment	64
XV. Freeship	64
XVI. Student's Aid Fund	65
XVII. Semesters and Vacations	65
XVIII. Certificates and other documents required at the time of viva voce & admission	65
XIX. Admission Procedure for Foreign Students	66
XX. Eligibility of Candidates who are due to appear in the qualifying examination	66
XXI. Admit Card for Entrance Examination	66
XXII. Time-Table for Admissions	67
XXIII. Guidelines/Courses Outlines for Entrance Examination	68
XXIV. Instructions for completing Application Form	76
- Entrance Examination Fee	84
- Format of Certificate - OBC Category	89
- Format of Certificate - SC/ST Category	90
XXV. Date Schedule for Entrance Examination	
(A) M.Phil./Ph.D., Pre-Ph.D./Ph.D., M.Tech./Ph.D., MPH/Ph.D.	91
(B) M.A./M.Sc./M.C.A./M.Sc.-Ph.D.	92
(C) B.A.(Hons.)	93
(D) Part Time Programmes	93
----- Affidavit by Student	94
----- Affidavit by Parent/Guardian	95

I. GENERAL

The Jawaharlal Nehru University constituted under the Jawaharlal Nehru University Act 1966, (53 of 1966) came into existence in 1969. Its objectives, as defined in the First Schedule of the Act, are as follows:

"The University shall endeavour to promote the principles for which Jawaharlal Nehru worked during his life-time, national integration, social justice, secularism, democratic way of life, international understanding and scientific approach to the problems of society.

Towards this end, the University shall:

- (i) foster the composite culture of India and establish such departments or institutions as may be required for the study and development of the languages, arts and culture of India;
- (ii) take special measures to facilitate students and teachers from all over India to join the University and participate in its academic programmes;
- (iii) promote in the students and teachers an awareness and understanding of the social needs of the country and prepare them for fulfilling such needs;
- (iv) make special provision for integrated courses in humanities, science and technology in the educational programmes of the University;
- (v) take appropriate measures for promoting inter-disciplinary studies in the University;
- (vi) establish such departments or institutions as may be necessary for the study of languages, literature and life of foreign countries with a view to inculcating in the students a world perspective and international understanding;
- (vii) provide facilities for students and teachers from other countries to participate in the academic programmes and life of the University."

In the light of the above, the approach of the University has been to evolve policies and programmes which will make Jawaharlal Nehru University a distinct addition to the national resources in higher education rather than a mere quantitative expansion of facilities which already exist. The University has identified and is concentrating upon some major academic programmes, which are of relevance to national progress and development.

The basic academic units of the University are not single discipline departments but multi-disciplinary Schools of Studies. A School has been visualised as a community of scholars from disciplines which are linked with each other organically in terms of their subject-matter and methodology as well as in terms of problem areas. Some Schools are made up of a number of Centres which constitute the units operating within the broad framework of a School. A Centre has been defined as a community of scholars irrespective of their disciplines engaged in clearly identified inter-disciplinary programmes of research and teaching.

Unless otherwise specified in the question paper, the JNU being an all India University, the medium of instruction for all programmes of study (barring Languages) is English; and the candidates are advised to write their answers, as far as possible, in English.

In order, however, to facilitate students coming from varying backgrounds with medium of instruction other than English at their Bachelor's/Master's level, the University has in-built facilities for remedial courses in English Language in order to enable them to strengthen their foundation in English as well as to cope up with their academic and research programmes adequately.

The University includes the following Schools of inter-disciplinary research and teaching besides some Special Centres of Study:

- (i) School of International Studies
- (ii) School of Language, Literature and Culture Studies
- (iii) School of Social Sciences
- (iv) School of Arts and Aesthetics
- (v) School of Life Sciences
- (vi) School of Environmental Sciences
- (vii) School of Computer and Systems Sciences
- (viii) School of Physical Sciences
- (ix) School of Computational and Integrative Sciences
- (x) School of Biotechnology
- (xi) Centre for Molecular Medicine
- (xii) Centre for Sanskrit Studies
- (xiii) Centre for the Study of Law and Governance
- (xiv) Centre for Nano Sciences

In matters relating to enrolment, steps have been taken to ensure that students from all parts of the country are able to join the University so that it becomes a national University in the true sense of the word.

The admission policy of the University is governed by the following principles :

- (i) to ensure admission of students with academic competence and potentialities of high quality so that its alumni may be able to play their role in the process of national construction and social change in a meaningful manner;
- (ii) to ensure that adequate number of students from the under-privileged and socially handicapped sections of our society are admitted to the University; and
- (iii) to maintain all-India character of the University by having on its rolls a fair representation of students from different regions of the country especially the backward areas.

Upto 22.5 per cent (15% for SC and 7.5% for ST) of seats are reserved for SC/ST candidates respectively. 3% seats are reserved for Person with Disability (PWD). The SC/ST and Person with Disability candidates who have passed the qualifying examination irrespective of their percentage of marks are eligible to appear in the Entrance Examination. 27% seats are reserved for OBC candidates (non creamy layer).

In the light of the objectives of the University as spelt out in the First Schedule of the Act, steps have been taken to ensure that students from outside India, especially from the developing countries join the rolls of the University in adequate number.

The number of seats being limited, admission will be made on the basis of merit. Merit lists will be drawn in accordance with the provisions of Admission Policy of the University.

No candidate shall be eligible to register for a full-time programme of study if he/she is already registered for any full-time programme of study in this University or any other University/Institution or is in full time employment.

However, students pursuing M.Phil./Ph.D., M.Tech./Ph.D., MPH/Ph.D., Pre-Ph.D./Ph.D. programme are allowed to take up full time employment only after completing two years residential requirement. Provided that those engaged in teaching and research in recognized institution located in NCR may be allowed to take up the full time employment subject to a limitation of 12.5% of the total number of M.Phil./Ph.D., M.Tech./Ph.D., MPH/Ph.D., Pre-Ph.D./Ph.D. student in a particular School/Centre (Prior approval and No Objection Certificate from the employer is pre-requisite for registration/admission).

A candidate who successfully completes a programme in one particular language/subject may not be entitled for admission to same level of programme (language/subject) again. The candidate may be allowed one more chance to get admission in other language/subject. Further, the candidate who fails to complete the programme successfully in the first two chances will not be given admission third time in the same language/subject under any circumstances. This will be applicable to all programmes of study being offered by the University.

Courses, Mode of teaching and Mode of evaluation, Curriculum updation

JNU is innovative with regard to its academic structure, and the revision of curricula is a continuous and ongoing process. The revision is initiated by individual faculty member(s) depending on requirements with a view to keeping pace with the changing needs.

Keeping the spirit of the interdisciplinary character of the University, the courses are structured in such a way that in addition to the prescribed compulsory courses in the discipline concerned, the students are encouraged to opt for optional courses offered by the concerned Centre/School and from other Centres/Schools to benefit from the faculty of other Centres/Schools. Unless a student obtains prescribed grades and credits in optional courses, he/she will not be qualified for award of a degree.

The University follows semester system. Each course is for the duration of one semester and it is assigned a specific number of credits. The number of credits to be assigned to a course are determined by Board of Study/Special Committee of the School/Special Centre on the recommendation of the Centre concerned. Evaluation is done by the concerned course teacher with the exception of M. Phil dissertation and Ph. D. thesis. University follows a continuous evaluation system. Each course has a number of credits assigned to it based on the prescribed contact hours.

Credit Requirements for

- a) Three year BA Programme in Languages (entry at 1st year level)

There shall be two level of courses:

- i) 'C' level courses which will be given ordinarily in the first two semesters.
- ii) 'B' level courses which will ordinarily be given in the third, fourth, fifth and sixth semesters; and

- b) Three year B.A. programmed in Languages (entry at 2nd year level)
 - i) 'C' level courses
 - ii) 'B' level courses which will ordinarily be given in the third, fourth, fifth and sixth semesters; and i
- c) M.A./M.Sc./MCA programme
 - i) 'C' level courses to be given during the entire duration of the programme
 - ii) 'B' level courses to be given during the entire duration of programmed of four semesters
 - iii) 'A' level courses to be given during the entire duration of programme
2. Ordinarily a course shall be given in three/four contact hours a week and the credits for these courses shall be as follows

'C' level courses	:	2 credits (1 Credit == 2 contact hours/week)
'B' level courses	:	3 credits (1 Credit == 1 contact hour/week)
'A' level courses	:	4 credits (1 Credit == 1 contact hour/week)
3. The actual credits requirement in the case of a student or a group of students for Master's Degree shall be prescribed by the Centre concerned.

B.A. (1st year entry level)

Minimum credit requirements 100. Out of 100 credits 22 credits from optional courses and 10 credits from tool courses. [Duration 6 semesters: extendable by two extra semesters; FGPA requirement is 4.00 for B.A. (Hons.) degree and between 3.00 to 3.99 for B.A. (Pass) degree.

B.A. (2nd year entry level)

Minimum credit requirements 76. Out of 76 credits 22 credits from optional courses and 06 credits from tool courses. [Duration 4 semesters: extendable by two extra semesters; FGPA requirement is 4.00 for B.A. (Hons.) degree and between 3.00 to 3.99 for B.A. (Pass) degree.

M.A./M.Sc.

Minimum credit requirements 64 [Duration: 4 semesters extendable by two extra semesters; CGPA requirement for M.A./M.Sc. degree is 4.00

M.C.A.

Minimum credit requirements 96 (Duration: 6 semesters extendable by two extra semesters; CGPA requirements 4.0 for MCA degree.

Evaluation:

1. The system of evaluation for each course shall be laid down by the Board of Study/Special Committee of the School/Special Centre on the recommendation of the Centre concerned.
2. For courses having a semester examination, sessional work shall carry the same weight as the semester examination.
3. The pattern and schedule of sessional work for each course of a semester shall be prescribed by the Board of Study/Special Committee of the concerned School/Special Centre, on the recommendation of the Centre concerned, and shall be made known to the students at the commencement of each semester.
4. The students shall be graded in each course on a 10 point scale, that is:

Grade	Grade Point
A+	9
A	8
A-	7
B+	6
B	5
B-	4
C+	3
C	2
C-	1
F	Fail

Note: There shall be no rounding off of SGPA/CGPA/FGPA

- A student who fails in a course shall be required either to repeat that course or to clear another course in lieu thereof.

Explanation:

A Student shall be required to repeat a course or clear another course in lieu thereof irrespective of his/her past performance in the sessionals if he/she has been awarded a final weighted grade of 'F' in that course.

- A student who secures a grade higher than 'F' in a course may be permitted by the Centre to improve his/her grade by repeating that course once:

Provided further that a student who wants to repeat a course to improve his/her performance shall be allowed to do so only if he/she surrenders his/her earlier grade in the course by 16th August in case of Monsoon Semester courses and by 1st February in case of Winter Semester courses. Having surrendered his/her earlier grade by due date, it will be his/her repeat performance in the course which will be taken into account to compute the SGPA and the CGPA. His/her transcript will however, reflect appropriately both the performances and the fact that he/she had repeated the course/courses.

- A Student will be required to maintain a C.G.P.A. of 3.0 (in core courses in the case of Languages Programmes and all courses in the case of other Programmes) at the end of the second semester and thereafter. However in respect of MCA programmed a student will be required to maintain a SGPA of 3.00 in the first two semesters separately and 4.00 thereafter throughout the programme.

M. Phil.:

It has both course work and dissertation. The course work will be completed in first two consecutive semesters followed by dissertation within the maximum permissible period of two semesters. The entire M.Phil programme has to be completed in four consecutive semesters.

The credit requirement for course work and dissertation is a minimum of 26 credits with at least 18 credits for the course work (including Research Techniques/Methodology and at least 8 credits for the dissertation). FGPA requirement is 5.5 for M.Phil. degree.

M.Tech. :

It has both course work and dissertation. The course work shall be completed preferably in first two consecutive semesters followed by dissertation. The entire M.Tech. programme has to be completed in four consecutive semesters.

The credit requirement for course work and dissertation is 50 credits with at least 30 credits for the course work, 5 credits for seminar and 15 credits for dissertations. FGPA requirement is 5.0 for M.Tech. degree.

M.P.H.:

The programme comprising of course work and field work shall be spread over in four semesters.

The credit requirement for course work and dissertation is 36 credits (with at least 27 credits for the course work (including Research Methodology) and 9 credits for field work) and FGPA requirement is 5.5 for MPH degree.

Pre-Ph. D. programme:

Course work of minimum of 14 credits followed by thesis. The course work has to be completed in the first two semesters.

Direct Ph. D. :

Generally no course work. However, depending upon the individual cases the Committee for Advanced Studies and Research/Special Committee of the concerned School/Special Centre, on the recommendations of the concerned Centre/Department, may prescribe some courses either as credit courses or audit courses.

Evaluation:

Evaluation of course work will be done in the same way as explained earlier in the case of M.Phil./M.Tech./MPH/Pre-Ph.D. programmes.

However, there is no provision for repetition of course in these programmes. If one fails in a course he/she will be out of the programme.

A student, enrolled in the M.Phil./M.Tech. Programmes will be required to maintain a CGPA of 5.00 at the end of second semester of the programme i.e. at the end of course work failing which he/she has to discontinue the programme. In case of students enrolled in the MPH programme he/she has to maintain a CGPA of 5.00 at the end of second and third semester of the programme. Further if a student admitted to the above programmes fails in any course/in any semester he/she has also to discontinue the programme irrespective of SGPA/CGPA.

The dissertation will be evaluated by two examiners - one of them will be the Supervisor and the other - an external examiner. If both the examiners find the dissertation worthy of awarding degree then they will award the grade jointly after the viva-voce. (In case the viva is waived off then each one gives the grade and the average is taken as the grade for the dissertation).

A student will be required to obtain a CGPA of 5.5 to be eligible for the award of M.Phil Degree and must obtain a CGPA of 6.0 (5.5 in case of SC/ST/PH students) to be eligible for continuation in the Ph.D. programme

A student securing a CGPA of 6.5 in the course work can opt to skip the dissertation and M.Phil degree and can get confirmed to Ph.D programme at the end of the course work.

A student enrolled in the pre-Ph.D programme needs to obtain a CGPA of 6.5 (6.0 in the case of SC/ST/PH Students) in the course work to get confirmed to the Ph.D programme.

If a course work is prescribed as credit courses for direct Ph.D. student he/she needs to secure a CGPA of 6.50 in course work for confirmation to Ph.D. programme.

The Ph.D thesis will be evaluated by two external examiners and based on the positive recommendations of both the examiners, a student is required to appear in the viva-voce examination to defend the thesis and based on the viva performance the degree is recommended and awarded.

II. SCHOOLS AND THEIR PROGRAMMES OF STUDY

1. SCHOOL OF INTERNATIONAL STUDIES

Established in 1955, the School of International Studies is the oldest School of the University. During fifty four years of its existence, the School has established itself as one of the premier institutions in the country for the study of international relations and area studies. The School has made pioneering contributions in promoting the study of international relations as an academic discipline in India and in advancing knowledge and understanding of international affairs in an interdisciplinary perspective. The School is also the first institution in the country to promote "Area Studies" and to develop expertise on various countries and regions of the world. It has also acquired an international reputation as a centre of advanced learning.

To begin with, the School was affiliated to the University of Delhi as the Indian School of International Studies. From September 1961 till the School merged with Jawaharlal Nehru University in June 1970, it functioned as a deemed university. Following the merger, the prefix "Indian" was dropped from the name of the School and it became the School of International Studies of the Jawaharlal Nehru University.

For a long time, the academic programmes of the School focused exclusively on research only awarding Ph.D. degree. Soon after the School became a part of the Jawaharlal Nehru University, the M.Phil. curriculum was introduced in 1971-72. In the following academic year 1973-74, the School started offering a 2 year M.A. (Politics: International Studies) programme. A new and unique M.A. programme in Economics (with specialization in World Economy) was introduced in 1995-96 by the Economics Division of the Centre for International Trade and Development.

Presently, there are more than 100 faculty members in the School. It also has Emeritus Professors and distinguished scholars. Several Chairs have been instituted in the School in the recent years. These are Appadorai Chair, Nelson Mandela Chair, State Bank of India Chair and Chairs in Environmental Law and Space Law. Members of the faculty of the School have contributed to the advancement and dissemination of knowledge in International Studies not only through their teaching and research supervision but also by publishing books and articles in journals of highest international repute.

The School holds national and international seminars from time to time on important aspects of area studies, inter-country relations and on themes relating to the study of international relations as an academic discipline.

The School also holds a series of Hriday Nath Kunzru Memorial (Extension) Lectures every year on a theme relating to contemporary international relations. Under an endowment funded by Asia Publishing House, Bombay, it also holds lectures in memory of the great poet and patriot, Sarojini Naidu and invites a distinguished scholar or statesman to deliver the memorial lecture.

The School publishes a quarterly journal "International Studies". Founded in July 1959, this journal has acquired world-wide reputation as a leading Indian academic journal in the field.

(A) PROGRAMMES OF STUDY

- (i) **M.Phil./Ph.D.** : Selected candidates shall be admitted, in the first instance, to a two-semester programme of course work. Successful completion of the prescribed courses and a dissertation in the next two semesters will lead to the award of degree of Master of Philosophy. The students meeting the prescribed criteria shall be eligible for registration for the Ph.D. Programme. They may submit their doctoral theses, four semesters after their registration for the Ph.D. degree. The Centres of the School may, at their discretion, provisionally admit a candidate directly to the Ph.D. Programme and prescribe courses for him. Such a candidate will not qualify for the M.Phil. degree. On satisfactory completion of the prescribed courses and examinations, he may be registered for the Ph.D. Programme.

On the basis of academic performance of the students and recommendations of the Centres, students who complete a preliminary draft of their doctoral theses may be deputed for field research abroad to their respective regions of specialisation. Course work and research facilities for the M.Phil./Ph.D. Programmes are available in the following fields of the twelve Centres of Studies of the School:

Centres of Studies & Fields of Study

1. **Centre for Canadian, US and Latin American Studies**
 1. Canadian Studies
 2. United States Studies
 3. Latin American Studies
2. **Centre for European Studies**
 - European Studies
3. **Centre for International Legal Studies**
 - International Legal Studies
4. **Centre for International Trade and Development**
 - International Trade & Development
5. **Centre for East Asian Studies**
 1. Japanese Studies
 2. Chinese Studies
 3. Korean Studies
6. **Centre for International Politics, Organization and Disarmament**
 1. International Politics
 2. International Organization
 3. Diplomacy and Disarmament
 4. Political Geography
7. **Centre for Russian & Central Asian Studies**
 - Russian & Central Asian Studies
8. **Centre for South Asian Studies**
 - South Asian Studies

9. Centre for Indo-Pacific Studies

Indo-Pacific Studies (Southeast Asia/ Southwest Pacific)

10. Centre for Inner Asian Studies

Inner Asian Studies

11. Centre for African Studies

African Studies

12. Centre for West Asian Studies

West Asian Studies

Note: In addition to above Direct Admission to Ph.D. Programme is also offered in all the Centres of the School except Centre for International Legal Studies and Centre for African Studies for the time being.

The following offer only Direct Admission to Ph.D. Programme:

13. Centre for Comparative Politics and Political Theory

Centre for Comparative Politics and Political Theory offers six MA level courses in Political Theory/Thought, Comparative Politics and Indian Politics. These courses form part of a set of core courses for MA students of SIS. The Centre offers only Direct Ph.D admission to doctoral students wishing to work broadly in the above fields.

14. Human Rights Studies Programme

The Human Rights Studies Programme offers only Direct admission to Ph.D. programme.

15. Energy Studies Programme

The Energy Studies Programme offers only Direct admission to Ph.D. programme.

(ii) M.A. in Politics (with specialization in International Studies)

The two-year Master's Degree Programme in Politics (with specialization in International Studies) is a School level programme in which all the Centres of Study of the School participate. The Programme combines studies in International Affairs, Area Politics, Political Theory, Comparative Politics and Economic Development which enable the graduates to receive all-around exposure in various fields of study.

(iii) M.A. in Economics (with specialization in World Economy)

The Centre for International Trade and Development launched a Master's Programme (M.A.) in Economics in 1995-96. The M.A. programme was designed with a clear emphasis on emerging global issues like trade, technology, environment, natural resources, currency and finance that makes it unique, and distinct from conventional M.A. programmes in economics offered elsewhere in India.

The programme provides sound theoretical background in the Principles of Economics and equips students with analytical tools and techniques for understanding the evolution of the world economy. Apart from preparing students for advanced research work, the programme also aims at training students as professional economists for the government, non-government and the corporate sectors.

(B) CENTRES OF THE SCHOOL**(i) Centre for Canadian, US and Latin American Studies**

The Centre for Canadian, US & Latin American Studies comprises the following three streams:

1. Canadian Studies
2. United States Studies
3. Latin American Studies

The Centre offers inter-disciplinary courses at the M.A. (School level), and M.Phil./Ph.D. level on Canada, the United States, and Latin America and Caribbean. The Centre's thrust areas include domestic political dynamics, foreign policies, security policies, regional integration processes and issues related to multiculturalism, ethnicity, gender, environment, politics of development and the sociology of making a "nation of immigrants". Subjects and themes relevant to the Indian context and North-South issues with a thematic focus are addressed in the study and research activities of the Centre.

(ii) Centre for European Studies

The Centre for European Studies is a multi-disciplinary department which aims to promote teaching, research and outreach activities to improve the understanding of Europe and Indo-European affairs. The Centre came into existence in 2005 as a result of larger restructuring of academic programmes in the School of International Studies. The areas of teaching and research in the Centre include Europe, The European Union and the new Central and Eastern Europe. It offers courses at M.Phil. level on Europe and the European Union (EU) viz., European Economic Integration, European Security, EU in World Politics, Social Structures and Dynamics in Europe, Politics and Society in Central and Eastern Europe and Identity Issues in Europe, besides compulsory courses in Research Methodology and German Language.

Regular seminars, conferences and lectures are organized by the Centre with the aim of bringing together wide range of expertise and to exchange views on the subjects of contemporary importance. The UGC has recognized the Centre as one of the advanced centres of European Studies in India by granting an Area Studies Programme to it.

(iii) Centre for International Legal Studies

The Centre for International Legal Studies consists of specialists in International Law, Trade Law, Law of International Organisation, International Environmental Law, Human Rights Law, Intellectual Property Law and International Air and Space Law. The Centre offers M.Phil./Ph.D. programmes. It also offers two core courses (International Law of Peace and Legal Controls of International Conflict) and one optional course (Globalization of Human Rights) to M.A. Students of the School.

(iv) Centre for International Trade and Development

The Centre attempts to provide a strong foundation for theoretical and empirical economic analysis. The

Centre concentrates on thrust areas such as International Economics, Economic Development, Finance, Environmental Economics, Industrial Organisation and Econometrics. The Centre offers an M.A. in Economics (with specialization in World Economy) and M.Phil./Ph.D. in Economics with the following areas of research specialization - trade, development, finance, banking, environment, regulation etc.

(v) Centre for East Asian Studies

The Centre for East Asian Studies, originally established as a Centre for Chinese and Japanese Studies, subsequently grew to include Korean Studies as well. The Centre imparts courses on historical, political, socio-cultural, economic and foreign policy dimensions of China, Japan and the Koreas at the M.Phil level, while Ph.D. researcher specialises in an area of his/her interest related to the East Asian region. The faculty of the Centre also offer courses at the MA level of the School. The successive generations of the faculty members of the Centre supervised more than 70 Ph.D. theses (about 45 in Chinese Studies, 25 in Japanese Studies and three in Korean Studies), above 250 M.Phil. dissertations (including more than 100 each in Chinese and Japanese Studies and 20 in Korean Studies). The Centre currently has eight faculty members (four in Chinese Studies, three in Japanese Studies and one in Korean Studies) and 100 students registered at M.Phil/Ph.D. levels. The Centre organises regular seminars, workshops and meetings, conducts presentations by researchers and invites scholars from abroad to enhance professional understanding of the region. The faculty members of the Centre have published extensively and several of them also serve as consultants, advisors, or honorary fellows at prestigious institutions in India and abroad. Several students of the Centre have been recipients of prestigious research fellowships awarded by Japan Foundation, Mombusho (Ministry of Education, Government of Japan), Saburo Okita Memorial Fellowship, Nippon Foundation, Korea Foundation, Nehru Memorial Fellowship, and Fellowship from the Chinese and Taiwanese Government. Besides, students from Japan receive fellowship from the Indian Council of Cultural Relations. As the profile of the East Asian states and economies are rising, the Centre is in the process of re-inventing itself to gear for the new trends in the region in teaching, research and academic collaboration.

(vi) Centre for International Politics, Organization and Disarmament

The Centre runs four MPhil/PhD programmes in (i) International Politics (ii) International Organization (iii) Diplomacy and Disarmament (iv) Political Geography.

The focus of the Centre's research activities has evolved over the years, in line with emerging concerns in the arena of world politics. Those wishing to apply to any of our programmes should note the specific areas of concern for each programme. The

International Politics division works on theoretical approaches to the study of global politics, in particular major schools of thought such as Realism, Liberalism, Constructivism, Feminism, Marxism/Post-Marxism, Normative Theory, and Post-Colonialism. The International Organization division focuses on the structures, processes, politics and problems of organising co-operation to address major issues of vital global and regional importance. The Diplomacy and Disarmament division works on issues such as the history, theory and practice of diplomacy, negotiations, war and peace, revolution in military affairs, nuclear deterrence and disarmament, environmental security, critical security studies, and terrorism and other non-traditional threats to security. The Political Geography division focuses on the study of theoretical and applied aspects of political geography, geopolitics and critical geopolitics. The division also runs a Cartographic Lab equipped with GIS software. Further information may be obtained at <http://www.jnu.ac.in/main.asp?sendval=cipod>

(vii) Centre for Russian & Central Asian Studies

The Centre runs M.Phil./Ph.D. Programmes in Russian, Central Asian and CIS Studies. It conducts research in these areas. The Centre works in close co-operation with policy makers and larger academic community. Regular seminars and conferences are also organised by the Centre in order to bring together a wide range of expertise and to exchange views on subjects studied by the faculty and the research scholars. In recognition of its high quality academic and research programme, University Grants Commission has accorded the Centre the status of an Advanced Centre of Russian and Central Asian Area Studies in India. Other areas of research and teaching in the Centre are Transcaucasia and Baltic Republics, Ukraine and Belarus, History, Politics, Economy and Society of these areas are studied in an interdisciplinary manner.

The Centre for South, Central, South-East & South-West Pacific Studies has been trifurcated into three Centres viz (i) Centre for South Asian Studies, (ii) Centre for Indo-Pacific Studies and (iii) Centre for Inner Asian Studies

(viii) Centre for South Asian Studies

The Centre for South Asian Studies covers studies and research on a range of aspects of 8 countries. All the academic activities including teaching and interdisciplinary research have been designed to objectively study and analyse history, politics, foreign policy, security, societies, economies, environment, regional cooperation/integration and contemporary affairs in different regions/countries covered by the Centre. The Centre has focused on academic pursuits that have strong intellectual value, deeper social relevance and wider national and international utilities and policy dynamics. Its programme of studies has attracted bright students having diverse background from various parts of India and also from other countries. It has evolved into a full fledged institute of academic

excellence, much admired by students, frequently consulted by the national governments and eagerly sought after by international organizations and other academic institutions.

The profile of the students who have completed their studies from the Centre does show that a large number of them have joined premier academic and research institutions and equally handsome numbers are in the national and state civil services. Many of the students have done exceedingly well in media and non-governmental organizations, other tertiary sector activities and national and regional politics. The importance of the Centre has become more critical and vital both in the context of large scale transformation in the global scenario and also within the countries that have been traditionally covered and studied by the Centre. There are immense opportunities for academic inquiry triggered by these new developments.

(ix) Centre for Indo-Pacific Studies

The Centre for Indo-Pacific Studies (CIPS) is a brand new Centre created in 2013 keeping in view the profound shifts that are taking place around India and India's rapidly rising stakes in the Indian Ocean and East Asia. Equally, it is also a reflection of today's geopolitical realities. The Indo-Pacific as a reason is emerging as the new template of reference since the confluence, interdependence and interface of the Indian and Pacific Oceans are getting strengthened not merely economically but geostrategically as well. The Indo-Pacific, comprising a vast spatial continuum spread from the Indian Ocean all the way up to West Pacific, including the crucial regions such as Southeast Asia and South Pacific, also brings forth India's centrality and its relationship with regions in the Indo-Pacific quite distinctly. First of its kind anywhere in the world, CIPS's intent is to break new ground by focusing its research and teaching on new frontiers of knowledge and bring out newer dimensions of a rapidly changing world. The programme is supported by an extremely competent and dedicated team of faculty committed to high quality teaching and research. Plans are afoot to expand and develop it into a leading Centre of academic excellence.

(x) Centre for Inner Asian Studies

The Centre for Inner Asian Studies, School of International Studies, Jawaharlal Nehru University will engage in teaching and research on the whole of Central Asia, that is the five Central Asian Republics of Uzbekistan, Tajikistan, Turkmenistan, Kyrgyzstan and Kazakhstan; Xinjiang, Tibet and Inner Mongolia regions of China; Mongolia and Afghanistan. Over the years, this Programme has evolved as the advanced Centre of Central Asian Studies in India and is known for its excellent research work and publications both at the national as well as international levels. All the academic activities including teaching and research have been designed to study and analyze history, politics, society, economy, geopolitics of energy and transport networks, besides the contemporary developments in Central Asia, Chinese Central Asia,

Afghanistan and Mongolia, and relate them to Indian experience and policy.

(xi) Centre for African Studies

Centre for African Studies covers the entire African continent including Sub-Saharan, North African region and African Island countries. It has a UGC Area Studies Programme on African Studies established in 2005. The Centre focuses on research activities related to Southern Africa. Francophone Countries and North African region. It has special focus on Indian diaspora in the region and Indo-African Relations.

The faculty members of the Centre offer M.A. as well as M.Phil/Ph.D courses. Taught courses include foreign policy as well as political, economic and social systems pertaining to the region.

(xii) Centre for West Asian Studies

The Centre for West Asian Studies focuses on all countries of West Asia and North Africa. It has a UGC sponsored Gulf Studies Programme established in 1978 as part of the Area Studies Programme of the UGC. The Gulf Studies Programme focuses on the countries on Gulf Cooperation Council, Iran, Iraq and Yemen. The Centre also focuses on Indian diaspora in the region.

The faculty members of the Centre offer M.A. as well as M.Phil/Ph.D courses. Taught courses include areas of foreign policy and political, economic and social systems pertaining to the region.

(xiii) Centre for Comparative Politics and Political Theory

The Centre for Comparative Politics and Political Theory at School of International Studies conducts 6 courses in Political Studies for the MA (PIS) programme of the School.

These are 3 Compulsory courses: Comparative Politics, Political Thought I and II, 1 Core course: Indian Political System and 2 Optional courses: Critical Thought in the Global South, Critical Issues in Democracy and Democratization.

The faculty of CCPPT also guide doctoral research of students admitted through the Direct Ph.D programme.

Areas of interest for the Centre are:

- a) Contemporary Theory, which would reflect interdisciplinary developments in the field and with a comparative dimension towards traditions of thought and politics in Asia, Africa and the Arab world and
- b) Developing a theoretically inflected understanding of emerging democratic practices globally, with special emphasis on India.

(xiv) Human Rights Studies Programme

The Direct admission to Ph.D. programme in Human Rights is intended to offer a unique opportunity to extensively research important themes/issues of human rights and duties in contemporary global politics from an interdisciplinary perspective.

(xv) Energy Studies Programme

The Direct admission to Ph.D. programme of Energy Studies aims at to offer opportunity to undertake research on Contemporary Themes and Issues in an inter-disciplinary perspective.

(C) ELIGIBILITY FOR ADMISSION**(i) Direct Admission to Ph.D. Programme**

Only those candidates shall be considered for Direct admission to the Ph.D. Programme who have—

- (a) obtained M.Phil degree of a recognized University/ Institution OR
- (b) at least two years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard. In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

For Centre for International Trade & Development, The candidate should have (i) M.Phil. degree in Economics/International Trade and Development from a recognized University/Institution OR

(ii) Masters degree in Economics with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale and at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard. Students admitted to the Direct Ph.D. Programme are required to do course work.

For Human Rights Studies programme: (a) obtained M.Phil. or equivalent degree of a recognized University/ Institution in the field of human rights or allied areas OR

(b) at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard in the field of Human Rights. In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

For Energy Studies programme: (a) obtained M.Phil. degree of a recognized University/Institution in the field of energy studies or allied areas OR

(b) at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard in the field of energy studies. In addition, they should have obtained Master's degree in Political Science, International Relations, Economics, Defence/Strategic Studies or Area Studies with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale. Students admitted to direct Ph.D. programme in energy studies are also required to do compulsory course work.

(ii) M.Phil./Ph.D.

(a) For Centre for International Politics, Organization and Disarmament: Master's degree in Political Science, History, Economics, Geography, Sociology, Defence/Strategic Studies, International Relations and Area Studies with at least 50% marks or Master's degree in Humanities and other Social Sciences with at least 60% marks or Master's degree in Natural Sciences with at least 65% marks.

(b) For Centre for International Legal Studies: LL.B. (Three Year) degree after Bachelor's degree with at least 55% marks or an LL.B. (Five year) degree with at least 55% marks in the aggregate or an M.A. with International Law as one of the subjects with at least 55% marks in the aggregate or an LL.M. degree with at least 50% marks in the aggregate.

(c) For Centre for International Trade & Development: Master's degree in Economics with at least 50% marks and familiarity with Mathematics and Statistics upto Bachelor's level.

(d) For Centre for South Asian Studies, Centre for Indo-Pacific Studies and Centre for Inner Asian Studies: Master's degree in Political Science, History, Economics, Geography, Sociology, Defence Studies, International Relations and Area Studies with at least 50% marks or Master's degree in Humanities and other Social Sciences with at least 60% marks or Master's degree in Natural Sciences with at least 65% marks.

(e) For Canadian and Latin American Studies: Master's degree in Political Science, History, Economics, Sociology, Defence/Strategic Studies, International Relations and other allied subject in Social Sciences and Humanities with at least 50% marks or Master's degree in Natural Sciences with at least 60% marks.

(f) For US Studies: Master's degree in Political Science, History, Economics, Sociology, Defence/Strategic Studies, International Relations, Humanities with at least 50% marks.

(g) All other Centres

Master's degree in Political Science, History, Economics, International Relations and Area Studies with at least 50% marks or Master's degree in Humanities and other Social Sciences with at least 60% marks or Master's degree in Natural Sciences with at least 65% marks.

(iii) M.A.

(a) M.A. in Politics (with specialization in International Studies)

Bachelor's degree in any discipline under 10+2+3 pattern of education with at least 50% marks.

(b) M.A. in Economics (with specialization in World Economy)

Bachelor's degree (with 50% marks in aggregate) in the following subjects: Economics (Honours)

with Mathematics as subsidiary subject; Mathematics(Hons.) with Economics as a subsidiary subject; or Statistics(Hons.) with Mathematics and Economics as subsidiary subjects. Admission will be denied to candidates who fail to meet the above eligibility criteria.

2. SCHOOL OF LANGUAGE, LITERATURE AND CULTURE STUDIES

Language is the key to society and man - how we think, what we think, how we interact with each other and co-exist as a community, all this is determined by language which is not only the means of thought but in fact the thought itself. Learning different languages means learning about cultures and traditions of various people. There are a large number of human natural languages, but we cannot learn all of them. However, if we acquaint ourselves with major languages of the world, we get to know much about human civilisation and culture. The School of Language, Literature and Culture Studies set up with this in mind, imparts instruction in a number of major European and Asian languages such as Arabic spoken in lands where Arabs live, Persian language of Iran an ancient country, Japanese, Korean and Chinese are spoken in the far east of Asia by a large number of people belonging to economically and politically powerful countries. The School also teaches major European languages such as English, French, German, Russian, and Spanish which are the languages basically of Europe but are spoken by large number of people in the Americas. Each of these languages has a significant body of literature, a galaxy of great writers, novelists, poets, story writers. These languages are the carriers of great culture and great philosophy. The student who opts to study a language in the School will, in fact, be studying much more than language. He/she will also be studying the literature, art and philosophy of that Culture.

Training in a major language enables one, at the end of the training, to become a translator, an interpreter, a teacher, an expert or a consultant in multi-media projects. Now that the world is becoming a small place and with the spreading globalisation a person trained in a foreign language is becoming an important person, a culture negotiator in fact.

The courses aim at developing competence and proficiency in spoken as well as written language through audio-visual techniques, language laboratory, films etc.

The courses in civilization and culture give a total overview of the history, geography and cultural institutions of the country concerned. A survey of the country's history, its art and thought are woven into the fabric of the courses to give the students a proper understanding of the relationship between society and its art and thought.

Literature is studied as a specific discipline in itself and students are trained in various methods of literary analysis. Literature is studied in its socio-historical context besides its study as an aesthetic object.

The School of Language, Literature and Culture Studies is the only institution of its kind in the country where facilities for teaching and research in most of the major foreign languages are available. In addition to the several foreign

languages, the School also provides for teaching/research in English, Theoretical & Applied Linguistics and a few Indian Languages.

Language studies in the School seek to promote in students a world perspective and a spirit of international cooperation and understanding of different civilizations and cultures.

B.A.(Hons.) being an integral part of the 5-year M.A. programme, on successful completion of B.A. (Hons.), the student will be eligible to seek registration to the first year of the M.A. programme (i.e. fourth year of 5-year M.A.) in the respective language, without having to go through the entrance examination again subject to his/her fulfilling minimum eligibility requirements. There is also a provision to admit students in the 2nd year of B.A. (Hons.) programme subject to fulfilling the prescribed eligibility criteria.

(A) PROGRAMMES OF STUDY

Centre of Studies, Programme of Study & Languages

1. **Centre of Persian and Central Asian Studies**
 - a. M.Phil./Ph.D. in Persian
 - b. M.A. in Persian
 - c. B.A.(Hons.) 2nd year in Persian
 - d. B.A.(Hons.) 1st year in Persian
 - e. B.A.(Hons.) 1st year in Pushto
2. **Centre of Arabic and African Studies**
 - a. M.Phil./Ph.D. in Arabic
 - b. M.A. in Arabic
 - c. B.A.(Hons.) 2nd year in Arabic
 - d. B.A.(Hons.) 1st year in Arabic
3. **Centre for Japanese Studies**
 - a. M.Phil./Ph.D. in Japanese
 - b. M.A. in Japanese
 - c. B.A.(Hons.) 2nd year in Japanese
 - d. B.A.(Hons.) 1st year in Japanese
4. **Centre for Korean Studies**
 - a. M.Phil./Ph.D. in Korean
 - b. M.A. in Korean
 - c. B.A.(Hons.) 2nd year in Korean
 - d. B.A.(Hons.) 1st year in Korean
 - e. *Certificate of Proficiency in Mongolian
5. **Centre for Chinese & South-East Asian Studies**
 - a. M.Phil./Ph.D. in Chinese
 - b. M.A. in Chinese
 - c. B.A.(Hons.) 2nd year in Chinese
 - d. B.A.(Hons.) 1st year in Chinese
 - e. *Diploma of Proficiency in Bahasa Indonesia
 - f. *Certificate of Proficiency in Bahasa Indonesia
6. **Centre for French and Francophone Studies**
 - a. M.Phil./Ph.D. in French
 - b. M.A. in French and Francophone Studies
 - c. B.A.(Hons.) 2nd year in French
 - d. B.A.(Hons.) 1st year in French
7. **Centre of German Studies**
 - a. M.Phil./Ph.D. in German
 - b. M.A. in German (Literature, Translation, Translation & Interpretation)
 - c. B.A.(Hons.) 2nd year in German
 - d. B.A.(Hons.) 1st year in German

8. Centre of Indian Languages

- a. M.Phil./Ph.D. in Hindi
- b. M.Phil./Ph.D. in Urdu
- c. M.Phil./Ph.D. in Hindi Translation
- d. M.Phil./Ph.D. in Tamil
- e. M.A. in Hindi
- f. M.A. in Urdu
- g. *Advanced Diploma in Mass Media in Urdu
- h. *Certificate of Proficiency in Urdu

9. Centre for Linguistics

- a. M.Phil./Ph.D. in Linguistics
- b. M.A. in Linguistics

10. Centre for English Studies

- a. M.Phil./Ph.D. in English
- b. M.A. in English

11. Centre of Russian Studies

- a. M.Phil./Ph.D. in Russian
- b. M.A. in Russian
- c. B.A.(Hons.) 2nd year in Russian
- d. B.A.(Hons.) 1st year in Russian

12. Centre of Spanish, Portuguese, Italian and Latin American Studies

- a. M.Phil./Ph.D. in Spanish
- b. M.Phil. in Portuguese
- c. M.A. in Spanish
- d. B.A.(Hons.) 2nd year in Spanish
- e. B.A.(Hons.) 1st year in Spanish

*** Part-Time Programme**

Note: In addition to above, Direct Admission to Ph.D. Programme is also offered in the above Centres except Centre of Indian Languages and Centre for Korean Studies for the time being.

(B) CENTRES OF THE SCHOOL**1. Centre of Persian and Central Asian Studies**

The Centre is a unique seat of Persian and Pashto learning in India where the entire gamut of language, literature, history, culture and civilization of Iran, Afghanistan, Tajikistan and Medieval India is covered in its various academic programmes from undergraduate to postgraduate as well as research levels. The programme of the Centre is language based; literature oriented, and includes studies of culture and civilization. Translation having theory and applied sides is an extensive course of the Centre in which students are thoroughly trained. The Centre has developed a good infrastructure for its teaching and researches in the Modern Persian literature.

Apart from the creative literature of the Persian speaking countries, special attention is paid to their sociology, politics, history and economics to enable the students to pursue proper study and research.

The Centre offers the following courses at various levels.

Persian Language and Literature

B.A. (Hons.) I year.....entry point

B.A. (Hons.) II year.....limited seat for students having completed B.A. I year programme in a College/University with adequate knowledge of Persian.

M.A. I year.....limited seats

M.Phil./Ph.D. programmes

Direct Ph.D.... limited seat for extra-ordinary scholars

Post-Doctoral Affiliation for teachers and scholarship holders

Pashto Language and Literature

B.A. (Hons.) I year.....entry point. Centre is offering B.A. (Hons.) programme from academic year 2015-16.

The courses offered by the Centre include Advance Translation, Interpretation, Audio-Visual, Literature, Culture, Area Studies, Comparative and Interactive Studies etc.

Following are the major areas which the Centre has identified as thrust areas:

1. Contemporary Persian Literature-New Trends,
2. Interactive Literature,
3. Indo-Iran Relations,
4. Area Studies (Iran, Afghanistan, Tajikistan, Kazakhstan, Uzbekistan),
5. Development of Pashto programme upto the level of post-Graduation,
6. Centre is actively pursuing project in the area of "Indian Impact on the Persian World: Compilation of Thematic Urdu-Persian Encyclopedia of Language, Literature and Culture."
7. Introduction of Kazak, Uzbek and Mongolian languages.

The M.Phil./Ph.D. programme in Persian has been designed to inculcate interest for research in various areas of Persian Language, Literature, Culture and Historical Studies. At the M.Phil level, the students are trained in research methodology and comprehensive history of Persian Language and Literature. Persian Studies in India specially the writings of Indian Scholars in Persian are the salient features of our M.Phil. and Ph.D programme. M.A. in Persian should be regarded as the essential qualification for admission to M.Phil programme.

Note: Entrance Examination for B.A.(Hons.) 2nd year, M.A. and M.Phil. shall be conducted in the Persian language.

2. Centre of Arabic and African Studies

The Centre offers full time three year B.A.(Hons.), two year M.A. and M.Phil/Ph.D. programmes in Arabic Language, Literature and Culture. The salient features of these programmes are intensive specialised training in Arabic Language with particular focus on developing communication skills, oral, written as well as translation. Subsequently, students are gradually exposed to and provided deep insight about the culture and literary heritage of the Arab World through both classical and contemporary texts. In recent

years, the Centre has emerged as one of the most prominent centres among all the Indian Universities specially in the field of modern Arabic Language and specialisation in its literature.

B.A.(Hons.) in Arabic: The course at the level of B.A.(Hons.) in Arabic is designed to develop language skill in speaking, reading, writing, comprehension, translation and interpretation. The students are also acquainted with history, culture and literature of the Arab World through courses such as contemporary Arab World and history of Arabic Literature. In teaching the language, audio visual language laboratory facilities and films are also used which makes learning the language simpler and interesting.

M.A. in Arabic: The M.A. programme has been designed to provide advanced and intensive training of Arabic Language, Literature, Culture and Civilisation through courses such as translation Arabic-English-Arabic, simultaneous interpretation together with course contents such as classical prose and poetry, modern prose and poetry, history of Arabic language and literature, Arabic novels and plays, prepare students for research and interpretation.

M.Phil./Ph.D. Programme: The M.Phil/Ph.D. programmes in Arabic have been designed to inculcate interest for research in different areas of Arabic and Islamic literature, culture, language and history. At the M.Phil level the students are trained in research methodology and a special paper Arabic Studies in India is the hall mark of the M.Phil programme.

The centre also plans to develop thrust areas such as:

- A. Classical Arabic language and literature
- B. Indo Arab relation in the field of contemporary literary exchange
- C. Indo African Studies: social cultural and literary aspects
- D. Introduction of Hebrew Language as a full time core course at B.A., M.A. & M.Phil/Ph.D levels. At the moment, the centre offers optional courses in Hebrew B.A. level. The full-fledged course will be offered subject to availability of teaching faculty.

Note: Entrance Examination for B.A.(Hons.) 2nd year, M.A. and M.Phil. shall be conducted in the Arabic language.

3. Centre for Japanese Studies

The Centre was set up in 1973 and it is one of the oldest departments of Japanese language, literature and culture learning in India. Presently, named as Centre for Japanese Studies (CJS), it is one of the centres of excellence in the South Asia, where the programs ranging from B.A. to Ph.d. are offered. There is a three year undergraduate degree programme, two year postgraduate degree programme and M.Phil./Ph.D. programme. The undergraduate courses are designed for making a beginner to acquire not only the language skills & efficiency but also impart basic knowledge about the history of Japanese literature, culture, history, society

etc., so that by the end of the third year, the student will have sufficient command over the language as well as society of Japan. The postgraduate courses in the centre envisage students to pursue higher level of expertise, using Japanese Language as a tool in the areas of Japanese Literature, Culture, Linguistics, Translation and Interpretation. Under the M.Phil./ Ph.D. programme, students pursue further research in fields related to Japanese Language, literature, culture, society etc.

B.A. (Hons.) Japanese, is a three-year degree programme of six semesters during which courses required for imparting the four skills of the language, i.e. reading, writing, speaking and listening, are taught to the students. Courses on History of Japanese Literature, Society and Cultural Traditions are also offered in the B.A. Programme.

M.A. Japanese, is a two-year programme of four semesters, in which students master the advanced skills in Japanese with special emphasis on current affairs & Newspaper translation, interpretation, analysis and appreciation of literary texts, and the cultural Heritage of Japan etc. At the M.A. level students have option to specialize either in Literature or Interpretation. The objective of this programme is to groom the students for translation, interpretation as well as research. In the final semester of M.A., the students are required to write a Dissertation on any area of their interest in Japanese studies.

M.Phil/Ph.D. in Japanese: The M.Phil. programme is of four semesters. Students are required to complete the prescribed number of courses and submit a dissertation for completion of M.Phil. For the Ph.D. programme the research scholar is required to submit a thesis on a topic of his/her choice from the field of Literature, Language, Comparative and Contrastive Linguistics.

Note: Entrance Examination for B.A.(Hons.) 2nd year, M.A. and M.Phil. in Japanese shall be conducted in the Japanese language.

4. Centre for Korean Studies

The Centre is one of the biggest academic centres of Korean Language, Literature and Culture Studies in the Indian Subcontinent. It offers B.A., M.A., M.Phil./ Ph.D. programme in Korean Language, Literature and Culture Studies. Korean language was first introduced in the Centre in 1976 as a Pre-Degree Diploma course. It was upgraded to a full-time B.A.(Hons.) programme in 1995 and M.A. in 1998. This was part of the 'Centre for Japanese, and North East Asian Studies' (CJNEAS), the nomenclature of which was changed to 'Centre for Japanese, Korean and North East Asian Studies' (CJKNEAS) in 2005. The M.Phil./Ph.D. programme in Korean was started from July 2013. It became an independent centre- "Centre for Korean Studies(CKS)" in August, 2013. Over the years it has grown into one of the largest Centres of the SLL&CS in JNU. The Centre also offers a part time certificate course in Mongolian Language.

B.A.(Hons) in Korean: This is a three-year degree programme wherein students are first imparted basic

skills in listening, speaking, reading and writing in Korean Language. They are first introduced to the Korean script (Hangeul) and then gradually to Hanja or the Chinese characters which are used along with Hangeul. The course also trains the students in conversation, composition and translation through a knowledge of specialized terminologies. The students are given intensive training in the Oral skills with the help of State-of the-art audio-visual aids. Along with the language, students also study literature, culture, history and geography of Korean peninsula.

M.A. in Korean: This programme is a two-year programme of four semesters, in which the students master the advanced skills in Korean with special emphasis on appreciation of literary texts of various genres, translation & interpretation from English to Korean and vice versa, analysis of current affairs, and study of social and cultural heritage of Korea. This programme also aims to impart general and overall understanding of Korean linguistics. The Centre often conducts on-line courses through an E-School programme tie-up with universities in the Republic of Korea. In the final semester of M.A. the students are required to write a dissertation on any area of their interest in Korean language, literature or culture.

M.Phil./Ph.D. in Korean: The M.Phil. programme is of four semesters. Students are required to complete the prescribed number of courses and submit a dissertation for completion of M.Phil. For the Ph.D. programme the research scholar is required to submit a thesis on a topic of his/her choice from the field of Literature, Language, Comparative and Contrastive Linguistics.

Mongolian Language Programme: The Centre also offers a Part-Time one-year Certificate of Proficiency in Mongolian Language.

Note: Entrance Examination for B.A.(Hons.) 2nd year, M.A. and M.Phil. in Korean language shall be conducted in the Korean Language.

5. Centre for Chinese & South-East Asian Studies

A full-time three-year B.A. (Hons.) and two-year M.A. in Chinese language at the Centre have been attracting and inspiring both the Indian and foreign students for over four decades. The Centre offers an intensive specialized training in modern Chinese language with particular emphasis on the commonly spoken language (putunghua) in present day China. Apart from having proficiency in the language, the students are gradually exposed to the cultural and literary heritage of China through both classical and contemporary texts.

B.A. (Hons.) in Chinese: The courses at the level of B.A. (Hons.) in Chinese are designed to develop language skills in speaking, reading, writing and comprehension. The students are also familiarized with various aspects of life in China through courses such as Read Chinese, Newspaper Chinese, Chinese Orator/Fluent Chinese, General Knowledge of China, Composition etc. The courses are aimed at developing

competence and proficiency in spoken as well as written Chinese through state-of-the-art audio-visual language laboratory facilities and films. The Centre also offers four tool courses in English for in-house students which are introductory courses about social, political and cultural life in East Asia.

M.A. in Chinese: The programme is designed to facilitate advanced and intensive training of Chinese language, literature, culture and civilization on the one hand and translation and interpretation on the other. Courses such as the History of Chinese Literature, Introduction to Chinese Language, Fundamental of Chinese-English Translation, Newspaper Translation, Chinese Novels, Consecutive and Simultaneous Interpretation, Introduction to the Economy of Modern China, Reading and Translation of Contemporary Writing train students for research and interpretation careers. The inter-disciplinary orientation of the courses also offers an opportunity to students to join M.Phil./Ph.D. programmes in social sciences streams of other Schools. The Centre offers a unique programme in training students in Modern Standard Chinese (Putonghua). Apart from having a practical proficiency in the language concerned, students are also familiarized systematically with various aspects of life in China and other Chinese-speaking areas in the South-East Asia. The aim of the programme, therefore, is to stimulate and facilitate young scholars to engage themselves in advanced level language-based studies on language, literature, history and culture of China and South-East Asian Countries.

M.Phil./Ph.D. in Chinese: The Centre offers a research programme leading to Ph.D. degree. At M.Phil. level, the Centre aims at introducing research methodology and other multi-disciplinary courses. A student admitted to the programme is required to clear prescribed courses in the areas like methodology, language, literature, culture, history, India-China contacts and write dissertation for completion of M.Phil. The broad areas of research include:

1. Chinese Culture Studies
2. India-China Civilizational Interaction through Ages
3. Contemporary Chinese Literature & Literary Theory & Criticism
4. Chinese Literary History
5. Chinese Language, Linguistic Profile and Linguistic History
6. Theory and Practice of Translation
7. Structure and Styles of Modern Chinese

COP/DOP in Bahasa Indonesia: The Centre also offers (Part-time) Certificate of Proficiency and Diploma of Proficiency programmes in Bahasa Indonesia

Note: Entrance Examination for B.A.(Hons.) 2nd year, M.A. and M.Phil. shall be conducted in the Chinese language.

6. Centre for French and Francophone Studies

The Centre is actively engaged in teaching and research in French and Francophone Studies with a view to promoting an interdisciplinary approach to

learning. The Centre offers full-time courses at the level of B.A.(Hons.), M.A., and M.Phil/Ph.D.

B.A. (Hons.): The programme aims at language proficiency by imparting written and oral skills through communicative approaches, language laboratory, films etc. Along with language acquisition, courses in civilization, culture & literature of French and Francophone countries are also included in the programme.

M.A. in French and Francophone Studies

At the M.A. level, students may specialize in French & Francophone Literature or Translation & Interpretation. Courses on language, linguistics methodology of teaching French as a foreign language and civilization (History of Art, Cinema, French Thought and Mass Media) are common to both streams.

M.A. Literature: The CFFS has the distinction of being the first Centre in Asia to have introduced Francophone literature as part of the curriculum: literatures from Canada, Sub-Saharan Africa, North Africa, the Indian Ocean, Asia and Europe constitute a substantial part of the syllabus. Equal weightage is given to theories of literature, thematic study of literature and its evolution through genres. With a view to promoting an intercultural perspective, courses on French Literature and India as well as Contemporary Indian literature in French have been introduced.

M.A. Translation & Interpretation: The programme is designed to teach theory and practice of translation and to analyze problems of interlinguistic and intercultural transfer and terminology of specialized fields. The role of translation in building national literatures and disseminating knowledge is emphasized. Courses such as "Translation in French of Indian Literary works" study the construction of Indian identities in French translations. A course on Scientific and Technical translation initiates students to techniques of documentary and terminological research. The CFFS lays equal emphasis on consecutive and simultaneous interpretation, and students undergo rigorous training in laboratory booths before going professional.

M.A. Dissertation : With a view to broadening the philosophical horizons of the students, the Centre not only promotes individual research in the form of an M.A. Dissertation (written in French) under the personal supervision of a teacher, but also actively encourages students to present papers in Conferences and Seminars for a wide range of reactions to their ideas.

M.Phil/Ph.D : The Centre offers an interdisciplinary research programme leading to Ph. D degree. A student admitted to M. Phil programme is required to clear prescribed courses on Methodology of research, linguistics, theories of translation, literature and write a dissertation for the completion of M. Phil. The broad areas of research for M. Phil/Ph. D include:

1. Translation Studies
2. Didactics of Language and Culture

3. French & Francophone Literature
4. Mass Media
5. Culture Studies
6. Language Studies
7. French Thought & Western Thought

Note: Entrance Examination for B.A.(Hons.) 2nd year, M.A. and M.Phil. shall be conducted in the French language.

7. Centre of German Studies

The Centre offers a B.A. Programme, three M.A. Programmes (M.A. in Literature; M.A. in Translation; M.A. in Translation and Interpretation) as well as a research programme (M.Phil/Ph.D.). Intensive language courses in the first year B.A. equip the students with the requisite knowledge of the German language to study the cultural, political, and literary history of German speaking countries. Introductory courses in linguistics and translation are offered in B.A. III, along with literary and social history. Tool courses in the cultural history of Europe since the Renaissance and in the political history of German speaking countries after 1945 are taught in English.

The Centre of German Studies is among the first departments to offer separate degrees in Literature, Translation, Translation & Interpretation. The M.A. in Translation, Translation & Interpretation offers a broad spectrum of courses, ranging from the conventional to the innovative, thereby providing students the choice of becoming professionally competent translators/interpreters or entering the equally challenging and rewarding arena of research in Translation Studies. The M.A. in Literature engages closely with contemporary literatures from German speaking countries. This programme also focuses variously on particular authors, literary movements, genres, and periods in literary history. Courses in theories of literature provide students with the opportunity to read critical texts which also form the theoretical basis of the literature curriculum.

Within the M.A. programme, we also offer a range of common courses, which seek to consolidate and supplement what students learn in their respective specializations. Didactics of German Language, the cultural and political history of key periods in the history of German speaking countries, Germany within the European Union, courses in Stylistics as well as courses in folklore studies are among some of these courses. Over the third and fourth semester of the M.A., students are expected to write a dissertation on an area of their choice.

M.Phil/PhD : The Centre of German Studies offers a four semester M.Phil programme, comprising course work and dissertation. The course work is to be completed during the first two semesters. The course on Research Methodology is compulsory – the other three courses are to be chosen from the courses notified by the Centre every year. The dissertation is to be written in the second year of the M.Phil. programme.

At the time of the viva-voce, M.Phil/PhD candidates seeking admission to the Centre are required to bring

with them a synopsis of their research proposal, indicating its scope, plan and feasibility.

The candidates must make their specific choice of specialization i.e. (Literature or Translation/ Translation and Interpretation) with care; it is not possible to change from one stream to another.

Candidates applying for M.A. (German) programme are allowed to exercise only one option, i.e., Literature or Translation/Translation and Interpretation, and the option so exercised must be clearly mentioned at the appropriate column in the Application form as well as on the top of the answer-book supplied to the candidates in the Examination Hall. Candidates may please note that the answer-books carrying more than one option will be considered invalid.

Note: The Entrance Examination for B.A. (Hons.) 2nd Year, M.A. and M.Phil. will be conducted in German. There will be one paper at M.A. level and two options for three M.A. programme offered by the Centre viz. 1. (Literature) and 2. M.A. (Translation, Translation & interpretation).

8. Centre of Indian Languages

The Centre is a research oriented Centre of higher studies for promoting inter-disciplinary approach to, and comparative perspective of literary studies. The Centre undertakes socially relevant and intellectually provoking research in various Indian languages. At present, the Centre has facilities for teaching and research in Hindi, Hindi Translation, Urdu and Tamil. Bengali, Marathi & Assamese languages are being introduced in the Centre. Efforts are being made to introduce Pubjabi, Odia, Malayalam & Kannada. The Centre has made innovations in its teaching and research programmes relating to Hindi, Urdu and Tamil languages, literatures and their cultures. The Centre is perhaps the only Centre of its kind in India where not only common courses in Hindi and Urdu at M.A. level are being taught but also faculty and students are engaged in comparative and integrated research. The Centre of Indian Languages offers courses at M.A. level in History of language and literature, Indian and Western literary theories, literary texts and their aesthetic and sociological appreciations. The Centre also offers some of optional courses in Urdu Mass Media at M.A. level.

The Centre has M.Phil programme in Hindi, Hindi Translation, Urdu and Tamil leading to Ph.D. degree in the areas like literary historiography, classic, medieval, modern and contemporary literature, textual criticism, critical analysis of literary texts, woman and literature, dalit literature, culture & literature, and comparative literature and emerging literary trends.

The research programme in M.Phil/Ph.D. in Hindi Translation focuses on the theories of translation, study of tradition and history of Hindi Translation translating original text to develop translating skill and comparative study of translation in India.

Programmes of Study: The Centre offers M.A. (Hindi), M.A. (Urdu with Literature and Mass Media Streams),

M.Phil/Ph.D. in Hindi, Urdu, Tamil and Hindi Translation. Apart from service courses in Hindi, Urdu & Tamil Translation like Tool and Optional, two part-time courses namely Advanced Diploma in Mass Media in Urdu and Certificate of Proficiency in Urdu are also offered by the Centre.

M.A. in Hindi and M.A. in Urdu: Each programme is spread over four semesters. During this period a student is required to earn 68 credits.

M.Phil/Ph.D. programme in Hindi, Urdu, Tamil & Hindi Translation: M.Phil/Ph.D. programme at the Centre consists of course work and a dissertation for M.Phil and a thesis for Ph.D.

Advanced Diploma (ADOP) in Mass Media in Urdu: This is a part-time evening programme consisting of two semesters. Each semester has two courses. Courses that the Centre offers are:

- i. Introduction to Mass Communication
- ii. Print Media
- iii. Stage and Film
- iv. Radio and Television

Certificate of Proficiency(COP) in Urdu: COP is a part-time evening course consisting of two semesters. It is primarily meant for beginners. Contents of the courses are script, grammatical skills and basic vocabulary.

Optional & Tool courses in Hindi, Urdu & Tamil Translation: Centre offers service courses in Hindi and Urdu for the students of various Centres and Schools of the University. Optional courses are spread over four semesters and each semester has two courses. This course is meant for those who have basic knowledge of the language and want to possess efficiency in language, literature and culture of the concerned language. Tool course is elementary language programme for the beginners. This course is spread over two semesters.

Short term courses for Foreign students of JNU: Centre offers short-term courses for foreign students. Duration of the course varies from six months to one year. The programme covers grammatical skills, language proficiency, knowledge of culture of respective language and literary appreciation.

9. Centre for Linguistics

The Centre offers an M.A. in Linguistics and integrated, interdisciplinary programmes of research (M. Phil./ Ph.D. and direct Ph. D.). The Centre also offers a wide range of Optional courses in Linguistics to undergraduate students of the Centres of foreign languages in the School.

The M.A. programme in Linguistics provides students a basic grounding in descriptive, general and theoretical linguistics, and initiates them into specialized areas, Applied Linguistic, South Asian Language Typology, Generative Phonology, Generative Syntax and Morphology, Cognitive Linguistics, Language-Mind-Brain Studies, Sociolinguistics, Indian Linguistic

Theories and Approaches and Semiotics of Language and Culture. The Centre imparts training in the practical and research aspects of the discipline, enabling the students to explore and reflect upon various theories of language and their relevance in specific contexts. Among the facilities the Centre provides are: Computerized Speech Lab and Phonetics Lab. Field work on Indian languages is also facilitated.

The M. Phil./Ph. D. programme is rich and multimodal. It allows researchers to engage in almost all areas of language studies. The programme is thus open to postgraduates from multiple disciplinary fields, leading to considerable interdisciplinary interaction. Work in the following areas has resulted in significant and impressive research outputs: Descriptive linguistics, Speech sciences including language pathology, Generative Syntax and Semantics, Neuro-cognitive linguistics, Sign Linguistics, Phonological theory, Applied Linguistics including Language Teaching, Semiotics and Philosophy of Language.

10. Centre for English Studies

The Centre recognized by the QS World University Ranking as one of the top 100 departments of English in the world, offers an M.A. programme in English, and integrated, interdisciplinary programmes of research (M.Phil/Ph.D. and Direct Ph.D.). The Centre also offers tool and optional courses in English Language and Literature to undergraduate students of the School majoring in foreign languages.

The MA programme lays emphasis on introducing students to new ways of looking at literatures in English—both from England and from other parts of the world, like African, American, Australian, Indian and Irish literatures in English. Courses in critical thought both Western and Indian, literary theories, and culture studies further help students to develop the ability to relate literatures to their contexts, to compare theories and texts, and to explore the way history, ideology, and material forces condition literary and other cultural texts.

The research programme M.Phil/Ph.D. and Direct Ph.D. are open to postgraduates from many disciplines. This allows for considerable interdisciplinary intellectual interaction. The areas of research include British Literature, Literature in other Englishes, Indian Literatures, Comparative Literature, Translation Studies. Contemporary Literary and Cultural Theories, Classical Indian Literary and Aesthetic Theories, Folkloristics, Theatre and Performance Studies, Popular Culture Studies, etc.

11. Centre of Russian Studies

The Centre of Russian Studies is one of the leading Centres of learning in the field of Russian Language & Translation, Literature and Culture. The Centre also offers a few optional courses to undergraduate students pursuing studies in foreign languages, namely Optional Course in Russian; Contemporary Russian Drama; Introduction to 19th Century Russian Literature (Prose); Introduction to 20th Century Russian

Literature Course; Hungary; Land and People (Part-I & Part-II). Optional Course in Russian is spread over 4 semesters and is not offered to the undergraduate students of the Centre of Russian Studies.

Programmes of Study: At present the Centre offers BA (Hons.), MA, M.Phil. and Ph.D programmes in Russian studies.

BA (Hons.) in Russian: This Programme is spread over six semesters. During this period a student has to earn a total of 71 credits in Core courses in Russian Language, Literature and Translation and 4 credits in the Tool course on “Culture and Civilization of Russia”. These are all compulsory courses. In addition, the student has to earn credits in optional and tool courses as prescribed by the School. A distinguishing feature of the Centre is that it has a well equipped language laboratory to facilitate the teaching and learning process. Whenever possible, native speakers of Russian are involved in the teaching work.

MA in Russian: The Master's Programme is spread over four semesters. During this period a student is required to earn 80 credits. While most of the courses are compulsory, in some cases the students may exercise a choice between Language, Literature and Translation courses offered by the Centre. The number of contact hours per week at this level is 20. Besides Russian language, the other courses offered are Folklore and Ancient Russian Literature, Russian Literature of 17th – 20th Century, Theory of Literature, Theory of Translation, Lexicology, Syntax, Morphology and Introduction to Linguistics. There are specially designed courses to give students sufficient practice in translating texts from Russian into English and vice versa relating to Newspapers, Business, Trade and Commerce, Social Sciences, Science and Technology. The students are also trained in two-way interpretation (Russian into English and vice versa). In the final semester the students are required to write a Term Paper which is meant to prepare them to carry out research work.

M.Phil. / Ph.D. in Russian: M.Phil. Programme at the Centre consists of Course Work and a dissertation. The Programme is spread over four semesters. During this period a student has to earn 16 credits in the course work comprising of four courses to be covered in the first two semesters. Of the four courses, Research Methodology is compulsory and the other three courses are to be chosen from a range of courses notified by the Centre every year. The dissertation is to be written in the second year of the M.Phil. programme.

For the Ph.D. Programme the research scholar is required to submit a thesis on a topic of his / her choice from the field of Russian philology – Comparative and Contrastive Linguistics; Russian Language & Literature, Methodology of Teaching Russian, Culture and Translation Studies.

Note: Entrance Examination for B.A.(Hons.) 2nd year, M.A. and M.Phil. shall be conducted in the Russian language.

12. Centre of Spanish, Portuguese, Italian and Latin American Studies

The Centre initially began its academic programmes as one of the Centres of the then School of Languages, with courses in language proficiency in Spanish. Since then, it has grown into a specialized Centre dealing with language, linguistics, literature, culture and civilization of Spain and Latin America as well as translation studies. In Spanish studies, the programmes go upto the Ph.D. level. An M.Phil programme in Portuguese is also being offered.

The Centre is a pioneering institution in the country, having prepared students and teachers to take up important assignments involving use of Spanish studies. Besides having provided teaching faculty to a number of academic institutions where Spanish is taught, personnel prepared by the Centre are engaged in such activities as tourism, interpretation, translation, banking and the business sector.

B.A.(Hons.): This programme, besides imparting language proficiency in Spanish written and oral skills through a mix of traditional/modern methods, including language laboratory and film shows, also offers courses in civilization, culture and literature of Spain and other Spanish speaking countries. There are also courses on translation involving professional, technical, literary and commercial texts.

M.A.: The two year comprehensive post-graduate programme offers courses in Spanish and Latin American literature and in translation and interpretation studies, as well as in language teaching methodology and contrastive linguistics. The programme aims to prepare students to conduct research at the M.Phil. level and also to impart translation/interpretation/teaching skills.

M.Phil./Ph.D.: This programme covers area of hispanic/Portuguese studies and offers courses on Methodology of Research, theories of translation, literature, contrastive linguistics and didactics.

The faculty and the students of the Centre regularly avail of the opportunities offered by the active cultural exchange programmes with Spain, Portugal, Mexico, and Italy.

A number of protocols of bilateral exchange programmes have been established with Spanish and Portuguese Universities. Each year a number of students from the Centre are selected for scholarships for further studies in these countries.

The Centre has been specially selected as an associate member of the European Union consortium under the MULTIELE (Erasmus Mundus) Program of European Commission to jointly conduct the Master Degree Program in Learning and Teaching of Spanish in Multilingual and International Contexts (www.multielele.org/es/miembros/html). Under this program European participants have to spend at least one semester (Monsoon Semester) in JNU to receive practical & theoretical training in the teaching of

Spanish in Multicultural Context of India. This program is open to only Multielele participants from Europe.

Note: Entrance Examination for B.A. (Hons.) 2nd year, M.A. and M.Phil. in Spanish language shall be conducted in the Spanish language and M.Phil. in Portuguese language shall be conducted in Portuguese language.

(C) SPECIAL FEATURES OF PART-TIME PROGRAMMES

Part-time courses are designed to suit the professional requirements of those who require some knowledge of the language for their areas of specialisation and for professional work where ability to understand the language at elementary level would be an asset.

- i. **Certificate of Proficiency in, Mongolian, Bahasa Indonesia and Urdu:** It is a one year part-time course in the language concerned in which basic skills of reading and comprehension are imparted.
- ii. **Diploma of Proficiency in Bahasa Indonesia:** It is a one year part-time course open to candidates who have completed the Certificate of Proficiency course in the concerned language.
- iii. **Advanced Diploma in Mass Media in Urdu** is a one year part-time intensive course which gives training in writing for radio, television, film, drama, journalism and other means of communication.

Selection of candidates to part time programmes of study

- (a) **For COP and Advanced Diploma in Mass Media in Urdu Courses:** The admission to COP and Advanced Diploma in Mass Media in Urdu Programmes of Study in the School will be made on the basis of the performance of the candidate in the written and viva-voce examination which will be held **only at Delhi Centres of Entrance Examination.**
- (b) **For DOP Course:** The admission to DOP course in the School will be made on the basis of the past academic record of the candidates which will be assessed in accordance with the criteria laid down by the University for selection of candidates for the purpose.

(D) ELIGIBILITY FOR ADMISSION

(a) Direct Admission to Ph.D. Programme

Only those candidates shall be considered for Direct admission to the Ph. D. Programme who have —

- (a) obtained M.Phil degree of a recognized University/Institution; OR
- (b) at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard. In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

- (b) **M.Phil./Ph.D.**
- (i) **M.Phil./Ph.D. in Languages/Subjects other than English, Linguistics and Hindi Translation.**
Master's degree in the concerned language/subject with at least 50% marks.
- (ii) **M.Phil./Ph.D. in English**
Master's Degree in English or Linguistics or Sociology or History or Political Science or Philosophy or Folklore or Film & Communication Studies or Culture Studies or Comparative Literature with at least 55% marks.
- (iii) **M. Phil/Ph.D. in Linguistics**
Master's Degree in Linguistics or any other discipline with at least 50% marks.
- (iv) **M. Phil/Ph.D. in Hindi Translation**
Master's degree in Hindi/Hindi Translation with 50% marks and English or any Indian language as one of the subject at B.A. level other than Hindi or Master's degree in any Indian/ Foreign language with 50% marks and Hindi as one of the subject at B. A. level.
- (v) **M.Phil. in Portuguese**
Master's degree in Portuguese with at least 50% marks or Master's degree in any other Romance Language (Italian, Spanish, French, Romanian) or in English with atleast 50% marks and an Advanced Diploma in Portuguese with atleast 50% marks.
- (c) **M.A.**
- (i) **M.A. in English and Linguistics**
Bachelor's degree in any discipline under 10+2+3 pattern of education with at least 50% marks.
- (ii) **M.A. in German**
Bachelor's degree in any discipline under 10+2+3 pattern of education with at least 50% marks with adequate proficiency in German.
- (iii) **M.A. other than English, Linguistics and German**
Bachelor's degree in any discipline under 10+2+3 pattern of education with at least 45% marks with adequate proficiency in the concerned language.
Candidates who have already pursued B.A.(Hons.)/ M.A. language programme in two or more Centres of study of the School of Language, Literature & Culture Studies are not eligible to join M.A. Language programme.
- (d) **B.A.(Hons.) 1st Year**
- (i) Senior School Certificate (10+2) or equivalent examination with minimum of 45% marks. **The candidates who are due to appear in Senior School Certificate (10+2) or equivalent examination are eligible to apply.**
- (ii) Certificate of Alimiah with atleast 45% marks issued by any of the following Madrasas subject to the condition that the candidate has passed English language at the level of Senior Secondary from a recognised Board/ University or a three year course conducted by Darul-Uloom Deoband.
1. Darul Uloom Deoband, U.P.
 2. Mazahirul Uloom Saharanpur, U.P.
 3. Darul Uloom Mau, U.P.
 4. Miftahul Uloom, Mau, U.P.
 5. Jamia Athria Darul Hadith Mau, U.P.
 6. Jamia Faize Am Mau, U.P.
 7. Madrasa Alia Mau, U.P.
 8. Madrasa Muhammadia, Mau, U.P.
 9. Madrasa Faizanul Uloom Bahadurganj, Ghazipur, U.P.
 10. Madrasa Ihyaul Uloom Mubarkpur, Azamgarh, U.P.
 11. Tauhid Education Trust Ma'hadabad-Khagra Kishan Ganj, Bihar
 12. Jamia Imam Ibn Taimiya, Madinatussalam, E. Champaran, Bihar
- (iii) (a) Certificate of Alimiah with atleast 45% marks issued by the following Madrasas
1. Nadwatul Ulema, Lucknow, U.P.
 2. Jamiatul Flah, Bilariaganj, Azamgarh, U.P.
 3. Certificate of Fazilah from Madrasatul Islah, sarai Mir, Azamgarh, U.P.
 4. Madrasa Jamia Islamia, Muzaffarpur, Azamgarh, U.P.
 5. Madrasa Eram Convent for Girls and Boys Indra Nagar, Lucknow, U.P.
 6. Jamial Muzahrul Uloom (Patna) (Degree of Fazilah)
 7. Jamial Darul Huda al-Islamiyah (Certificate of al-Sanaviyah al-Ulia)
 8. Darul Uloom Alimia, Jamda Shahi, Basti, UP (Alimia Certificate)
 9. Al-Jamia-Tus-Salafiah (Markazi Darul-Uloom) (Degree of Alemiat)
 10. Al Jamia Al Islamiya Kerala India (V) (Preparatoy course which is of 2 years after senior school leaving certificate)
 11. Al Jamiatul Ashrafia, Mubarak Pur, Azamgarh UP (Certificate of Alimiat/Fazilat)
 12. Jamia Syed Ahmad Shaheed, Vill. Ashmadabad (Katauli) Malihabad, Lucknow UP (Alamiyat degree)
 13. Jamiya Misbahul Uloom, Chaukonja Bharat Bhari, Siddharth Nagar, UP (Alimiah degree)
 14. Jamia Islamia Sanabil (Aaliya/Fadhil)
 15. Al Jamiatul Islamiah Tilkahna, Siddarth Nagar, UP (Alimia)
 16. Madrasa Arabia Islamia Wasiatul Uloom, Allahabad, UP (Alimia)
 17. Mahad Aysha Al-siddiqah Qasimul Uloom Libanat, Darussalam Abul Barakat, Deoband, UP (Almiyat).
- (b) Certificate of Maulvi with atleast 45% marks issued by the Bihar Board of Madrasa Education
- (iv) **Candidates who have already pursued B.A./M.A., Language programme in two or more**

Centres of the School during their entire academic career are not eligible for admission.

Minimum Age : 17 years as on 1st October 2015.

NOTE:

1. Eighty percent of the seats in the First Year of 3-year B.A.(Hons.) programme in the School are earmarked for those who have either passed the Senior School Certificate or equivalent examination in the year 2014 or are due to appear in 2015, and the remaining 20% are open to all other candidates.
2. Candidates who have obtained their Higher Secondary Certificate under the 10+1 pattern of education will be eligible for admission to the First-Year of the three-year B.A. programme if they have successfully completed the First-Year of Bachelor's degree examination of a University under 10+1+3 pattern of education with the prescribed percentage of marks.

(e) B.A.(Hons.) 2nd Year

- (i) B.A.(Hons.) 2nd Year in German:** First year of Bachelor's degree or an examination recognised as equivalent thereto with at least 50% marks under 10+2+3 pattern of education **with adequate proficiency in German.**
- (ii) B.A.(Hons.) 2nd Year other than German:** First year of Bachelor's degree or an examination recognised as equivalent thereto with at least 45% marks under 10+2+3 pattern of education **with adequate proficiency in the concerned language.**

(Entrance Examination shall be conducted in the language to which admission is sought and selection will be made on the basis of the performance of the candidate in written and viva-voce).

Candidates who have already pursued B.A./M.A., Language programme in any two Centres of the School during their entire academic career are not eligible for admission.

Minimum Age : 18 years as on 1st October 2015.

(f) Part-Time Programmes

1. **Certificate of Proficiency :** Atleast Senior School Certificate (10+2) or an examination recognised as equivalent thereto with a minimum of 45% marks in aggregate.
2. **Diploma of Proficiency :** Atleast Senior School Certificate (10+2) or an examination recognised as equivalent thereto with a minimum of 45% marks in aggregate and **Certificate of Proficiency in the language concerned** or an examination recognised as equivalent thereto.
3. **Advanced Diploma in Mass Media in Urdu:** A Bachelor's Degree under 10 + 2 + 3 pattern of education with a minimum of 45% marks in aggregate with Urdu as one of the subjects at High School or Intermediate or B.A. Level.

The candidates who have obtained their qualification under the pattern of education other than 10+2 will be eligible for admission to the COP and DOP programmes of study if they have successfully completed the first year of Bachelor's degree examination of a University with atleast a minimum of 45% marks. Similarly, the candidates who have obtained their Bachelor's degree under the pattern of education **other than 10+2+3** will be considered for admission to Advanced Diploma in Mass Media in Urdu if they have successfully completed the first year of Master's degree programme or a bridge course in lieu thereof, wherever prescribed, from a recognised University with atleast a minimum of 45% marks.

3. SCHOOL OF LIFE SCIENCES

The School of Life Sciences (SLS) was established in the year 1970-71. The School offers programs of study leading to M. Sc. and M.Phil/Ph.D. degrees in Life Sciences. The School was conceptualized as an interdisciplinary program unifying all the disciplines of biological sciences reflecting essential commonality among them at molecular level in terms of structure, function and evolution. The approaches undertaken by constituent research groups of the School span from in vitro characterization of molecules to physiological studies with whole organisms, from theoretical bioinformatics to experimental recording of neuronal activity in live animals, and in terms of biological systems from bacteria to plants to mammals. The research areas of interest include most of the front line areas of modern biology such as genomics, molecular biology, cell and developmental biology, nucleic acid therapeutics, drug and vaccine targets, cellular immunity, human molecular genetics, molecular parasitology, biology of infectious agents, neurobiology, microbial biotechnology, photobiology, plant biotechnology for abiotic and biotic stresses, ecology and evolutionary biology, radiation and cancer biology, biochemistry and structural biology.

The School of Life Sciences has earned a reputation of running interdisciplinary programs of study at the Master's level, for students from both biological and physical sciences. This is made possible by offering remedial courses in physical sciences for students coming from the bioscience stream and in elementary biology for students entering biology after their first degree in physical sciences. The School has an in-house system of continuous review of its academic programs that allows inclusion of newer areas into research and teaching. The M.Sc. practical laboratories are well equipped to give 'hands on' training to the students in the subjects taught to them in the theory classes. Besides, it is mandatory for all the students to carry out project work in one of the laboratories in the School during the last two semesters which motivates them to pursue research in their Ph.D. program. Graduates completing their degrees at the School are always sought after by research labs in India and abroad and have performed exceptionally well in the universities, institutes and industries.

The teaching program comprises of molecular, cellular and organism biology with emphasis on the mechanisms

operating in living systems, in a holistic manner. The School offers core/foundation courses as well as advanced courses for the M. Sc. and M Phil. /Ph. D. students. Students are assessed and evaluated throughout the semester by a continuous system of tests, seminars, assignments, mid and end-semester examinations. The M. Sc. course structure also lays emphasis on research and offers students the choice of a research career to be pursued in various institutions within the country and abroad. Our M.Sc. students are encouraged to rejoin SLS through laid down entrance test to pursue their doctoral studies. Our M. Phil./Ph. D. students are offered pre-Ph. D. courses covering various aspects of advance research in life sciences which prepares them for a better research career thereafter.

Active research in several important areas/field is being carried out in the School of Life Sciences which is reflected with many research articles published in peer-reviewed national and international journals of repute. The School has consistently maintained a level of productivity in terms of publications in reputed peer reviewed journals and books. Over 1, 500 papers have been authored by the faculty of the school since its inception. Over 450 students of the School have been awarded Ph.D. degree. Last but not the least, our faculty members have been honoured with recognitions like being members of the Planning Commission, Padma Awards, elected Fellows of various Academies, Bhatnagar Award, National Bioscience Award, Birla Award, Third World Academy Award, Ranbaxy Award, J.C. Bose Award, Bhasin award and many others.

The School continues to attract core funding from the University Grants Commission (UGC) under the Centre for Advanced Study (CAS) in "Cell and Molecular Biology" and under Resource Networking Program and University with Potential for Excellence (UPOE) programs. It has also received support from the Department of Science and Technology (DST) in the form of FIST-I and FIST-II programs. Individual faculty members are also supported by research grants from the national and international funding agencies such as the UGC, DST, Department of Biotechnology (DBT), Council of Scientific and Industrial Research (CSIR), Indian Council of Medical Research (ICMR), The European Union, the Wellcome Trust (UK), Swiss Development, USDA, International Atomic Energy Agency (IAEA) etc. The website (www.jnu.ac.in/sls) can be checked for detailed information regarding the course content and the ongoing research.

The School has successfully established a culture of sharing by maintaining high cost and 'state of the art' instruments in a Central Instruments Facility (CIF) accessible round-the-clock for all its researchers and also for researchers from outside the University. These equipments include ultracentrifuges, high-speed centrifuges, spectrophotometers, spectrofluorimeters, cell culture facilities, time-resolved single photon counting fluorescence spectrometer, atomic absorption spectrometer, isothermal titration calorimeter, phosphorimager, scintillation counter, PCR-machines, real-time PCR machines, gel documentation system, imaging facilities, lyophilizer, ultra-low freezers, water purification system, brain-wave analyzer, oscilloscope, polygraph for electrophysiological measurements, gene gun, and gamma chamber. The School also has plant and animal cell culture facilities and stereotaxic surgical facility for small

animals. A common facility exclusively for genomics and proteomics research has been established with funding from the UGC-UPOE grant. This facility includes FACS, microarray scanner, automated hybridization station and MALDI-TOF/TOF, LC-ESI-MS/MS, and real time PCR. The CIF facilities are continuously upgraded with funding from various sources. In addition, the School also has an Animal House for experimental animals and a Glass House facility for experimental and transgenic plants.

(A) PROGRAMMES OF STUDY AND ADMISSION PROCEDURE:

(i) M. Phil/Ph.D (Life Sciences)

Each year students are admitted to the M.Phil/Ph.D. (Life Sciences) program under different categories as follows.

Category I: Candidates with M. Sc. or equivalent degree must appear in the written examination conducted by the University nation-wide in the month of May. Based on the written test, short-listed candidates will have to appear for an interview. Candidates are finally selected for admission on the basis of their performance in the written test and the interview.

Category II: Under this category, candidates who have qualified for the Fellowship i.e. the JRF category under the CSIR/UGC National Eligibility Test (NET)-JRF, DBT-JRF, ICMR-JRF, or any other Fellowship awarded from Government of India for the purpose of pursuing Ph.D. degree can apply in a separate admission form for the purpose without appearing in the JNU entrance test. M.Sc. Bioinformatics students appearing for the final examination or those already qualified and awarded a research fellowship after clearing the Bioinformatics National Certification (BINC) Examination (conducted by DBT) are also eligible to apply. Candidates who have already initiated their fellowship in some other institution and are interested to get it transferred may also apply, provided the period of available fellowship (after August 2015) is more than four years; also, JNU will not be responsible for the transfer of fellowship. Candidates who have appeared in the CSIR/UGC-NET-JRF, DBT-JRF and ICMR-JRF; but results are awaited may also apply under this category. However, they will be called for the interview only upon submission of a valid documentary evidence of having qualified for the fellowship (JRF) to the admission branch or the School, JNU (through post or Email), by June 20th, 2015. Candidates with a valid proof of JRF will only be entitled for the permissible travel allowances for attending the interview. These candidates are finally selected for admission on the basis of their performance in the interview.

NOTE: Two separate lists will be prepared for above mentioned categories. Thus, all candidates who are eligible for category – II are also encouraged to apply under category – I in separate application form to enhance their chance of getting selected.

Category III: Direct admission to the Ph. D. Program: Only those candidates shall be considered for direct admission to the Ph. D. program, who have:

- a. Obtained an M. Phil. degree by pursuing research work in a laboratory of a recognized University/Institution. In addition, the candidates should have minimum one research publication in a peer reviewed journal.
OR

- b. At least two years research experience in reputed Institutions with research publication (s) in a peer reviewed journal. In addition, they should have obtained Master's degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

Eligibility on its own does not ensure a call for the interview. Based on their qualifications and publications, the candidates will be shortlisted for the interview. The candidates are finally selected for admission on the basis of their performance in the interview for the purpose and qualifications.

Given below are the broad research groups in the School of Life Sciences and the candidates are requested to visit the website of the School (www.jnu.ac.in/sls) for the details of the ongoing research in each group as the candidates would be asked to give five preferences of research groups of their interest at the time of their interview.

Research Groups in the School of Life Sciences

The students to M. Phil./Ph. D. program of the School of Life Sciences are admitted under one of the following research areas:

- Molecular biology of plant viruses, host-virus interaction, RNAi
- Molecular plant physiology, plant pathogen interaction, systemic acquired resistance in plants
- Crop biotechnology, transgenic plants for improved stress tolerance, functional genomics of abiotic stresses, transcriptomics, proteomics and metabolomics
- Genetics and genomics of capcium species
- Chloroplast biogenesis, biochemistry and molecular biology of plant pigments, protein targeting into chloroplasts, photodynamic herbicides, root-shoot Interaction in greening process
- Ecology and evolutionary biology
- Modulatory effects of phytochemicals on carcinogenesis and genotoxicity in mammalian cell culture and mouse models, tumor angiogenesis, radiation and cancer therapeutics, radioprotection, modulation of cancer growth and progression by phytochemicals, plant extracts and other agents
- Mechanism of ageing and action of anti-ageing drugs and dietary supplements on rat brain functions
- Eukaryotic gene expression, transcription control of cardiovascular and other degenerative diseases
- Mechanism of Transcription- Basal Machinery, Chromatin Modifying Complexes and Transcriptional

Regulators in Gene Regulation; Molecular and Functional Genomics

- Transcription regulation of p53 and its family members, functional characterization of gyrase from *Plasmodium falciparum*
- Epigenetics and chromatin remodelling
- Structural and functional studies of crucial pathway proteins from gastric infections organisms (*E. histolytica* and *H. pylori*)
- Sleep and neuronal plasticity, sleep, learning and memory
- Electrophysiological and biochemical studies on neurophysiology and functions of sleep-wakefulness
- GPI anchor structure and biosynthesis, lectin-carbohydrate interactions, protein folding
- Relevance of mitochondria and GPCR-like proteins in *Candida albicans*
- Molecular mechanisms of regulated exocytosis from mast cells, intracellular protein traffic in immune cells
- Genomic biology of repetitive DNA and noncoding RNA, cytokines, transcription factors, cell signaling and disease, mesenchymal stem cells and regenerative medicine
- Cell differentiation and developmental program in *Dictyostelium*
- Macromolecular crystallography on human disease related proteins, rational structure based drug design and vaccine development
- Molecular parasitology, identification of drug targets, vaccine candidates and biomarkers in *Leishmania*
- Vaccine development for Group B *Streptococcus* and other infectious agents using reverse vaccinology approach, membrane transporters: functional characterization and their structure.

Following successful registration after selection, students would be offered a list of positions/vacancies available then with individual faculty members in various research areas of the School. Following admission while course work will continue, the students are advised to interact (up to 3-4 weeks) with the faculty members to mutually decide on the lab they would like to join for their Ph.D. research. Please keep in mind that this does have a bearing on the number of vacancies available with a faculty member. Thereafter, by around first week of September 2015, the Graduate Advisory Committee (GAC) of the SLS would formally designate a supervisor for each student (for details see http://www.jnu.ac.in/SLS/SLS_Handbook.pdf).

All students have to take pre-Ph. D. courses for the initial two semesters. [Detailed information regarding the course structure can be obtained from the website (www.jnu.ac.in/sls)]. For subsequent registration to the Ph. D. program, the student has to secure a minimum CGPA of 6.5 (for SC/ST and physically challenged students, the minimum CGPA requirement

is 6.0 in those courses). The student, in consultation with respective Ph.D supervisor, has to submit a synopsis of the research proposal and defend it in an open seminar. Based on the above criteria, the Special Committee of the School approves the enrollment of the student to the Ph. D. program. When sufficient amount of research work has been carried out by the student and with due approval of the supervisor, the student can submit their Ph. D. thesis. Although Ph. D. thesis can be submitted upon completion of at least 2 years of research work, normally it is between 2 to 4 years from the date of confirmation for the Ph. D. program. Under special situations, a student may apply, for consideration by the Special Committee, for an extension of one more year (5th year) to submit the Ph. D. thesis, provided the research work has been examined and recommended by an expert committee including the supervisor for this purpose. In case a student opts for an M. Phil. degree or obtains a CGPA between 6.5 and 6.0 for candidates belonging to the general category and 6.0 to 5.5 for the candidates belonging to the SC/ST/PH category, the student has to carry out research work under the guidance of a designated supervisor for two semesters and submit an M. Phil. dissertation. After obtaining the M. Phil. degree, the student can continue for her/ his Ph.D. degree.

The M. Phil./Ph. D. degrees are awarded on the basis of evaluation and recommendation of the thesis by two external examiners from within the country followed by successful oral defense of the research work by the candidate.

(ii) M. Sc. (Life Sciences)

Students are admitted to the M. Sc. (Life Sciences) program each year on the basis of their performance in the nation-wide written test conducted by the University in the month of May. This program offers an in-depth theoretical as well as practical knowledge in all areas of Life Sciences. Students from both Physical Sciences as well as Biological Sciences backgrounds may join this program. Students have to take both core courses and optional courses spread over four semesters, and practical courses in the first two semesters. During the final two semesters, students also have to carry out a research project on a specific topic under the supervision of a faculty member in a laboratory and submit a dissertation for evaluation by a committee of experts followed by open oral presentation defending the project. Students also have to present a seminar and submit a term paper on a current topic in life sciences. The final evaluation for the grades is on a 9.0 point scale CGPA. Detailed information regarding the course structure can be obtained from the website (www.jnu.ac.in/sls).

(B) ELIGIBILITY FOR ADMISSION

- (i) M.Phil/Ph. D.:** M.Sc. or equivalent degree, with at least 55% marks or equivalent grades, in Biological Sciences, Bioinformatics or Physical Sciences, as well as to those with M.B.B.S or M. Tech. or M.Sc. (Agriculture) or M. Sc. (Veterinary Sciences) degree with 55% marks.

- (ii) M.Sc.:** Bachelor's (B. Sc. or B Tech or equivalent) in Biological, Physical or Agricultural Sciences or Biotechnology under the 10+2+3 pattern of education with at least 55% marks.

4. SCHOOL OF SOCIAL SCIENCES

(A) PROGRAMMES OF STUDY

The School of Social Sciences is the largest post-graduate School in the University. It has M.A., M.Phil./Ph.D., MPH/Ph.D. and Direct admission to Ph.D. programmes in its various Centres. It has no undergraduate programme of its own, even though it offers a few under-graduate courses for students of School of Language, Literature & Culture Studies. The School has nine Centres, in which regular admission takes place in different programmes as detailed in the following table:

Centre, Programme of Study & Field of Study

1. **Centre for Economic Studies and Planning**
 1. M.Phil./Ph.D. in Economic Studies & Planning
 2. M.A. in Economics
2. **Centre for Historical Studies**
 1. M.Phil./Ph.D. in Historical Studies
 - a. Ancient History
 - b. Medieval History
 - c. Modern History
 2. M.A. in History
 - a. Ancient History
 - b. Medieval History
 - c. Modern History
3. **Centre for Political Studies**
 1. M.Phil./Ph.D. in Political Studies
 2. M.A. in Political Science
4. **Centre for the Study of Regional Development**
 1. M.Phil./Ph.D. in Regional Development
 - a. Economics
 - b. Geography
 - c. Population Studies
 2. M.A. in Geography
5. **Centre of Social Medicine and Community Health**
 1. M.Phil.(Social Sciences in Health)/Ph.D.
 2. Masters in Public Health (MPH)/Ph.D.
6. **Centre for the Study of Social Systems**
 1. M.Phil./Ph.D. in Social Systems
 2. M.A. in Sociology
7. **Centre for Studies in Science Policy**

M.Phil./Ph.D. in Studies in Science Policy
8. **Centre for Philosophy**
 1. M.Phil./Ph.D. in Philosophy
 2. M. A. in Philosophy
9. **Zakir Husain Centre for Educational Studies**

M.Phil./Ph.D. in Educational Studies

10. Centre for Women's Studies

M.Phil./Ph.D. in Women's Studies.

11. Centre for the Study of Discrimination and Exclusion (CSDE)

M.Phil./Ph.D. in Discrimination and Exclusion Studies

12. Centre for Informal Sector and Labour Studies

M.A. in Development and Labour Studies

13. Centre for Media Studies

M.Phil./Ph.D. in Media Studies

Note: In addition to above, Direct Admission to Ph.D. Programmes is also offered in the above Centres of the School.

The following offer only Direct Admission to Ph.D. Programme.

14. Group of Adult Education

The Group of Adult Education offers only Direct admission to Ph.D. programme.

15. North East India Studies Programme (University level programme)

The North East India Studies Programme offers only Direct admission to Ph.D. programme.

The School has a lively academic ambience. The teaching and research programmes in the School have certain innovative elements. While ensuring rigorous discipline-oriented training in each Centre, interest is generated in multi-disciplinary study and research, by allowing students to take courses in other Centres depending upon their aptitude as well as the relevance of the courses to their main disciplines and areas of research interest.

(B) CENTRES OF THE SCHOOL**1. Centre for Economic Studies and Planning**

The Centre has established itself as a premier institution for teaching and research in Economics, and has been recognized by the UGC as a Centre for Advanced Studies. The richness of the teaching and research programmes is reflected in the structure of the courses and the research output of faculty and research scholars. The faculty has a distinguished record of publications of books, monographs and articles, as well as outreach through more accessible articles in the popular media.

The Centre strives to ensure that the faculty is easily accessible to the students. The pedagogic emphasis is on understanding and learning rather than on memorizing. Students have to write term papers, make presentations, solve problems, appear in open book examinations, etc. as part of a continuous evaluation process.

(a) Direct admission to the Ph.D. programme

A very limited number of scholars are admitted directly to the Ph.D. programme. The minimum requirements for admission are either an M.Phil. degree from a recognized institution or at least two published research papers. Candidates are selected by the faculty on the basis of an interview.

(b) M.Phil./Ph.D programme

The M.Phil. programme consists of course work (4 courses to be completed in the first year, accounting for a total of 16 credits) and a dissertation (to be completed in the second year, accounting for 8 credits). One compulsory course must be chosen out of either "Methods of Economic Analysis" or "Statistical and Econometric Methods", while the other three may be chosen from a range of optional courses offered in each semester. The purpose of these courses is to introduce students to analytical issues and the current state of research in the subject, with a view to providing a background for the research required for the dissertation. Course work involves lectures, presentations and writing papers, while students writing their dissertations are required to present their work in progress at different points.

Promotion to the Ph.D. programme is not automatic. Students who receive a cumulative grade point average of 6.5 or more are allowed to choose to go directly to the Ph.D. or finish their M.Phil dissertation first. On completion of the M.Phil., an overall grade of 6.0 is required to continue for the Ph.D. programme.

Admission to the programme is on the basis of a written examination (70 per cent) and a viva voce examination (30 per cent). Candidates seeking admission to the programme are required to bring a synopsis of their planned research theme, and have some idea of its scope and viability.

(c) M.A. programme:

The focus of the M.A. programme is twofold: (i) to acquaint the students with the analytical foundations of the discipline of economics in alternative theoretical approaches; and (ii) to enable the students to relate their analytical understanding of the subject to the actual experience of economies and to interpret processes of change using a historical perspective. Special emphasis is placed on the study of aspects of development, in the context of the Indian economy. The programme consists of 16 courses taught over four semesters. 8 courses taught in the first year are compulsory while the remaining 8 courses are optional, to be chosen out of a range of courses offered out of the Centre and including 2 that can be chosen from outside the Centre if desired. One of the new experiences for many students comes from an introduction to research through the requirement of writing term papers for several courses.

2. Centre for Historical Studies

Recognised as a Centre for Advanced Studies by the UGC, The Centre for Historical Studies is a premier centre of teaching and research in history within India. It is also one of the oldest centres in the School of Social Sciences having launched its programme of Post Graduate Studies in 1970 under the guidance of eminent historians like Professors S. Gopal, Romila Thapar, Bipan Chandra and Satish Chandra. A major focus of the Centre continues to be on cutting-edge research that can expand the frontiers of the discipline.

(a) Direct Admission to Ph.D. programme

Those who wish to be admitted to this programme need to have an M.Phil. degree with a dissertation from a recognized institution or at least two published research papers, the final selection into this programme is done on the basis of an interview by the faculty.

(b) M.Phil./Ph.D.

The Centre focuses its teaching and research on Ancient, Medieval, Modern and Contemporary History with particular emphasis on the study of economic, social and cultural changes. Students who learn to handle different types of source material are encouraged to work on themes that cut across these chronological divides.

Ancient History: In the training provided to students special emphasis is laid on the study of languages and on using different categories of source materials—literary, epigraphic, numismatic and archaeological. It seeks to encourage study and research on the evolution of social structure, political process, agrarian relations, urbanization, trade and trading groups, inter-relationship of religion and society and perspectives on Indian history provided by historical geography.

Medieval History: Study and Research includes structure and change in medieval Indian Society, state systems, agrarian development, growth of trade and commerce, ideology and culture. Emphasis is also given to the study of two major transitions in Indian History—from ancient to medieval and from medieval to colonial regimes, through a reconstruction of structural continuities and cleavages encompassing the institutional, technological, social, economic and ideological development.

Modern History: Apart from the study of social changes and evolution of agrarian, industrial and class structures, emphasis is placed on the study of colonialism in its economic, political and cultural dimensions, nationalism and the national movement, peasant, trade union and tribal movements, the growth of left-wing parties and groups and developments in the cultural, intellectual and ideological fields.

Contemporary History: In this field an effort is made to situate the evolution of contemporary developments, particularly those since World War II, in a long term historical context. Special attention is given to studying the linkages between different aspects of contemporary society viz., the economy, polity, culture, environment, etc., in a holistic manner, i.e. not compartmentalised into the relatively strict boundaries of disciplines such as political science, economics or sociology. Also, an attempt is made to conduct the above studies in a comparative perspective, taking into account the experience of different countries.

The M.Phil. programme of the Centre is intended to introduce the students to research in history through a research methodology course and dissertation. Efforts are made to fill gaps in the student's knowledge

of the period or area of history with lectures as well as seminar courses in the first year. The dissertation will have to be submitted on the basis of primary research work undertaken by the student at the end of the two year programme.

At the time of the viva-voce, M.Phil./Ph.D. candidates should come with 1000 word synopsis of their research proposal (six copies). In the interview, they will be asked questions regarding their proposal, primary sources and some of the key books read by them in their M.A. course.

Candidates applying for M.Phil./Ph.D. (History) programme are allowed to exercise only one option, i.e., Ancient History; or Medieval History; or Modern Indian History, and the option so exercised must be clearly mentioned in the appropriate column in the Application Form as well as on the top of the answer-book supplied to the candidates in the Examination Hall. Candidates may please note that the answer-books carrying more than one option will be considered invalid.

Promotion from M.Phil. to Ph.D. is not automatic and is as per the provisions of relevant ordinance.

(c) M.A. in History

Students entering the Centre are offered a flexible programme while specialising in (1) Ancient History, or (2) Medieval History, or (3) Modern and Contemporary History. Along with courses in their specialisation, students are required to offer a set of common courses designed to survey (a) historiography and historical methods, and (b) broad patterns of socio-economic and political formations and structural changes through a series of three courses covering the Ancient, Medieval and Modern periods. In addition, students will be required to offer at least two courses on histories of countries other than India.

Apart from these compulsory courses, a large part of the programme is available as "Open Options", wherein the students may choose courses in areas other than that of one's specialization including (1) other periods of Indian history, and (2) courses in other Centres (with permission of the Faculty) in disciplines relevant to the student's area of interest and specialization. Students are strongly advised to do a language course relevant to their area of specialisation.

With the exception of two seminar courses in the fourth semester of the M.A. Programme, all courses offered by a student are lecture courses. In lecture courses fifty per cent of the evaluation depends on a student's performance in examination or tutorials during a semester, and fifty percent on performance in the end-semester examination. The programme expects a good deal of independent writing by students as part of the curriculum. The seminar courses initiate students into the exciting and painstaking world of research, wherein they are required to present an original paper on the basis of an investigation of primary sources.

The candidates must make their specific choice of specialisation, i.e. (Ancient History or Medieval History or Modern Indian History) with care; it is not possible to change from one stream to another.

Candidates applying for M.A. (History) programme are allowed to exercise only one option, i.e., Ancient History; or Medieval History; or Modern Indian History, and the option so exercised must be clearly mentioned at appropriate column in the Application Form as well as on the top of the answer-book supplied to the candidates in the Examination Hall. Candidates may please note that the answer-books carrying more than one option will be considered invalid.

No application for a second M.A. at the Centre for Historical Studies will be entertained from those who have completed an M.A. degree from the same Centre even if the period of specialization is different.

Candidates who qualify are requested to register at the earliest so that they can take full advantage of the tutorial system. Classes normally begin from the end of July. Students are required to check with the CHS office for specific dates. Students are also requested to attend the Orientation Meeting with the Faculty. This will introduce them to the structure of courses, the system of evaluation and the rules and norms of the Centre. The date of this meeting will be put up on the notice board of the Centre by the first week of August.

Applicants are requested to note that the pattern of the CHS M.A. and M.Phil. entrance examinations may change from time to time. For further details please check the Centre for Historical Studies website <http://www.jnu.ac.in/SSS/CHS/after February 2015>.

3. Centre for Political Studies

The Centre is recognized as a premier centre for teaching and research in Political Science. Students who have graduated from the Centre are holding important positions in academic institutions and other walks of public life all over the world. The faculty members have a distinguished record of publications of books and articles in important national and international journals.

The Centre offers two programmes of study- MA. and M.Phil/Ph.D. The teaching and research work of the Centre covers three rubrics of political studies: (1) political philosophy and history of ideas; (2) Indian government, politics and public policy; and (3) Comparative politics and International Relations.

(a) Direct admission to Ph.D. programme:

The Centre for Political Studies offers direct admission to Ph.D. programme in the three core areas of research mentioned above.

Those who wish to apply for a research degree are expected to have a strong, detailed and well developed research proposal for a thesis that can be supervised in the Centre. In addition to fulfillment of the entry requirements, they will need to approach the subject with rigor and appropriate knowledge of the field.

Candidates must submit a copy of their research proposal along with their application for a direct admission to the PhD programme.

The Ph.D. admission is not automatic but is decided case by case depending on the strength, merit, research capacity and research orientation of the candidate applying for Ph.D. admission.

(b) M.Phil. / Ph.D. Programme

The M.Phil/Ph.D. students seeking admission to the Centre are required to:

- qualify the written examination;
- Those who are selected for Viva-Voce are required to bring with them a synopsis of their research theme indicating the scope, plan and feasibility of proposed research at the time of Viva-Voce.

M.Phil. Programme at the Centre consists of course work and dissertation. The M.Phil course work comprises of a combination of lectures, presentation of seminar papers and participation in discussions on work in progress. In each case academic work is designed to enable students to understand the link between concepts theoretical formulations and empirical investigation.

For the M.Phil. programme students are required to take four courses in the first two semesters-two compulsory courses and two optional courses. The two compulsory courses are: 1) Philosophy and Methods in Social Sciences; (2) Approaches, Concepts and Methods of Political Analysis. These courses must be offered in the first semester of the M.Phil. programme.

The compulsory courses are designed to train students in the methods and techniques of research work and to equip them to use political concepts with some degree of theoretical and analytical rigour. The first course introduces students to major debates in the Philosophy of Science and Philosophy of Social Science. It also prepares them to undertake quantitative and qualitative research. The second course exposes students to concepts and approaches that are central to the study of politics. In addition to this, the students can take any two optional courses offered by the Centre, depending upon their research interests and chosen specializations.

(c) M.A. in Political Science

As a degree in Political Science, the M.A. programme of the Centre focuses on the study of Political theory/ ideas, Comparative Politics/International Relations, and Indian Politics and public policy. The programme is designed to - a) enhance theoretical understanding and develop methodological skills in these three branches of Political Science; (b) relate political processes with social structures and ideas; and (c) interpret institutions, policies and processes in a historical perspective. The Centre places special emphasis on the study of political developments in India and promotes theoretically informed analysis of social and political reality.

The M.A. programme consists of 16 courses, which are taught over four semesters. Of these 10 are compulsory and the remaining six are optional courses. Of the six optional courses, at least four should be chosen from a wide range of optional courses offered by the Centre and 2 may be from outside the Centre in the two years M.A. programme.

All compulsory courses offered by the students are lecture-based courses. However, they require students to write tutorials/term papers. In each case, fifty percent of the grade depends on the student's performance in midterm assignments and the remaining fifty percent is awarded on the basis of their performance in the end semester examination.

4. Centre for the Study of Regional Development

The Centre for the Study of Regional Development came into existence in the year 1971 with the mandate of evolving an inter-disciplinary teaching and research programs with a focus on the issues of regional development in India. This Centre is one of the largest Centre in the School of Social Sciences. The Centre offers postgraduate degree in Geography and M Phil/ Ph D programme which is inter-disciplinary in nature.

(a) M. Phil /Ph. D Programme

The Centre for the Study of Regional Development offers the M. Phil/Ph. D. programs in an interdisciplinary framework within the broad ambit of regional development and planning. While students from geography, economics population studies, and statistics are admitted in this program, the program is also open to students from any other related disciplines. The M. Phil/Ph. D. program covers diverse streams of research which contributes towards understanding of the Indian regional structure and development dynamics in space.

The teaching and research in the M. Phil and Ph. D program has been developed in a manner that can help study regional development in all its complexities. Since its formation in 1971, the endeavor of the Centre has been to understand the plural, and multi-layered character and processes of regional development and also develop appropriate paradigms and tools of analyses. The inter disciplinary course work in the M. Phil and Ph D program covers all possible dimensions that help meet these objectives. The courses offered at the M. Phil / Ph. D level in the Centre are taught by faculty members from Economics, Geography, and Population Studies and students from all the three disciplines are advised to take these courses.

The courses that are offered include research and quantitative methodology courses, courses in applied statistics and econometrics, computer-aided cartography, data management and GIS based courses; demographic methods and applications; census, vital statistics and sources of demographic data; along with theoretical and applied courses that deal with - agrarian issues; rural development; political economy of agrarian change; natural resource base and its implications for regional development; distribution and utilization of natural resources; geomorphology and climatology; application of GIS

and remote sensing in resource management; natural resource base, population, environment and sustainable development; climate change; socio-economic aspects of fertility, mortality and morbidity; settlement and human ecology; population theory and policy; women and human development; processes of urbanization and migration; labour and employment; political economy of regional development; theories of regional growth; industrial location and location theories; infrastructure and its financing; socio cultural dimensions of regionalization with special reference to ethnicity, caste, gender, linguistic and other identities; social infrastructure and development with special focus on health and education; development experience and theory and dynamics of regional policy.

The M. Phil and Ph. D students seeking admission to the Centre, at the time of viva voce, are required to bring with them a short note on their proposed research theme indicating the scope, plan and feasibility of their research. The faculty has diverse research interests covering range of themes that relate with spatial, social, economic and environmental vulnerabilities and marginalities; issues of climate change that address resources, livelihoods and institutions; issues related with demographic changes with particular focus on aging and demographic dividend; issues that explore processes of migration, urbanization, employment, deprivation and poverty; social development and outcomes; geo-spatial applications in regional development; and Globalisation and spatial differentiation. Detailed research interest of the faculty is available at www.jnu.ac.in

(b) M.A. in Geography

The focus of the programme is on the modern concepts of Geography with special reference to problems of regional development in India. The curriculum includes theoretical, topical, and methodological courses. The courses cover geographical thought, human ecology, regional development theory, geomorphology, climatology, hydrology, economic geography, social geography, population and settlement geography. All the topical courses have emphasis on India. Issues on regional development are dealt with in courses on regional geography of India, meso regional studies, and levels of regional development in India. The methodological courses cover quantitative techniques, computer assisted cartography, GIS and remote sensing. Courses on socio-economic and physical survey methods are an essential component of the programme for which the students are required to participate in field work which is usually organised in challenging terrain and in rural settings. Students can opt for any one of the following specialization streams in the fourth and final semester:

- a) Advanced Techniques in Geography
- b) Agricultural Geography
- c) Physical Resources and Geomorphology
- d) Population and Settlement Geography
- e) Regional Development and Planning, and
- f) Social Geography
- g) Remote Sensing and GIS

5. Centre of Social Medicine & Community Health

The Centre of Social Medicine and Community Health (CSMCH) was established in order to shape and provide academic content to the discipline of public health, making it relevant to the situation in India. It was recognised that the discipline of Preventive and Social Medicine needed a paradigm shift that could only be provided if this Centre was set up outside the confines of a medical college.

Over the past 30 years, the Centre has acquired vast experience in evolving problem-oriented interdisciplinary academic programmes in public health, in addition to building an active research base. At the same time, efforts have also been made at establishing institutional links with various academic, research, policy-making and non-governmental organisations.

Under the overall objective of creating academic programmes for making health services meaningful to the people of the country, the Centre has set out as its objective the task of understanding the health problems and health needs of the mass of Indian people. The endeavour is to understand how health problems are shaped by socio-economic factors and to examine the social structure itself, to delineate the structural constraints that contour the scope of health interventions. The task requires an inter-disciplinary approach involving disciplines such as sociology, anthropology, psychology, economics, history, politics, demography, statistics and public administration, apart from the disciplines that are traditionally included in public health. It was for this reason that the Centre was located in the School of Social Sciences. Epidemiology, health service structure, health programme design, health systems research and health policy analysis are important foci for all the programmes.

The Centre offers the following academic programmes:

1. M.Phil/Ph.D. in Social Sciences in Health. (as mentioned on page 33).
2. Master of Public Health (M.P.H./ Ph.D. in Public Health).
3. Direct Ph.D. for both streams.

Both M.Phil and MPH are spread over four semesters (2 years). M.Phil students are required to undertake two semesters of course work followed by a dissertation. The MPH students are required to undertake three semesters of course work. They are additionally required to conduct a field study during the inter semester breaks and to be completed in the fourth semester. The successful completion of the prescribed course work and dissertation/field study will lead to the award of M.Phil. or M.P.H. degree. The candidates who have secured the prescribed grades will be eligible for registration to the Ph.D. programme. In addition to the above programmes, the Centre also admits candidates to the Ph.D. programme directly as per criteria mentioned in page 32. The Centre may

prescribe courses to the candidates admitted under the direct Ph.D. programme.

Courses in public health cover areas such as organization of health programmes, epidemiology, nutrition, maternal and child health, communicable diseases, family planning, research methodology, operations research etc. Courses in social sciences cover concepts and methods relevant for public health within an interdisciplinary perspective.

During the second semester students are offered a number of optional courses. They also get an opportunity to familiarise themselves with the current issues in public health through an intensive journal club in the second semester. All students are exposed to group field work in both urban and rural areas as a part of their course work.

6. Centre for the Study of Social Systems

The Centre is recognized as a premier centre for teaching and research in Sociology. Students who have graduated from the Centre have distinguished themselves in all walks of public life. Our alumni are present in most leading institutions of higher education and research nationally and globally. Our faculty members have made their mark in the broader world of social sciences with a distinctive intellectual orientation and an illustrious record of publications.

Since its inception in 1971, the Centre has developed a distinctive approach to sociology both in terms of a plurality of theoretical and methodological orientations as well as in a variety of substantive fields of empirical enquiry. Equal focus is therefore given on the teaching of qualitative and quantitative methods on the one hand and on philosophy of methods on the other. From its very inception both teaching and research in our Centre have shown an engagement with pressing questions of development and marginalization, social movement and social justice. The CSSS is recognized as a Centre for Advanced Studies in the discipline of sociology by the UGC.

The Centre offers two programmes of study-MA and M.Phil/Ph.D. The teaching and research work of the Centre covers three aspects of sociological studies: (i) Theory and Social Thought; (ii) Methodological Orientation and Methods of Social Research; (iii) Substantive studies on different dimensions of social life. The Interdisciplinary orientation of our teaching is reflected in the structure as well as contents of the courses offered at both M.A and M.Phil Levels.

(a) Direct admission to Ph.D Programme

Those who wish to apply for a research degree will be expected to have a strong, detailed and well-developed proposal for a thesis that can be supervised in CSSS. The Ph.D admission is not automatic but is decided case by case, depending on the strength, merit and research orientation of the candidate.

(b) M.Phil/Ph.D

The M.Phil programme at the Centre consists of course work and dissertation. It carries a total of 24

credits-16 credits for the course work and 8 credits for the Dissertation. The Course work consists of 2 compulsory papers of 4 credits each and two optional papers, also of 4 credits each. The compulsory courses are on Theoretical Orientations and on Methods of Social Research designed to expose students to concepts and approaches that are central to sociological studies. The aim is to equip the students to use these concepts and approaches with some analytical rigour and to train students in diverse techniques of research as well as in the methodological assumptions upon which they rest.

(c) **M.A in Sociology**

Teaching and research programmes of the Centre for MA are organized around studies in theories and methods, on the one hand, and analysis of structures and processes of social systems on the other. Courses at the M.A level seek to combine theoretical and methodological concerns with the study of the substantive issues relating to Indian society. Of the 16 courses offered to the M.A students, 5 are optional courses.

All courses offered to the students are lecture-based courses. However, they require students to write tutorials/term papers. In each case, fifty percent of the grades depend on the student's performance in mid-term assignments/tests and the remaining fifty percent is awarded on the basis of their performance in the end semester examination.

7. Centre for Studies in Science Policy

Studies in Science Policy is an interdisciplinary field drawing upon a range of social, natural and engineering science disciplines to enhance our understanding of the interactions between science-technology-society interrelationship. It concerns the impact of science and technology on society and vice versa. The primary focus of teaching and research at the Centre is on areas relating to science and technology policy analyses; sociological and historical perspectives in science and technology; economics of technological change and innovation studies, technology futures analysis, gender relations in science and technology, science and technology for development, international relations in science and technology, emerging technologies and globalization of innovation, issues of intellectual property rights and environment.

The Centre aims at promoting an interdisciplinary perspective and is open to students for admission from a variety of social and natural sciences, technology, engineering, medicine, law and management disciplines.

The Centre offers M.Phil./Ph.D. and direct Ph.D. programmes. The M Phil. programme in Studies in Science Policy requires completion of 24 credits in four semesters. The coursework carries 16 credits and the dissertation 8 credits. The course work consists of 4 courses (4 credits each). Out of these, three are compulsory courses and one optional

course. Students in the programme may continue to pursue Ph.D. after the completion of M.Phil. course work (in two semesters) after securing required grade or after the successful completion of both course work and M.Phil. Dissertation (in four semesters).

Direct Ph.D. programme is open to scholars who have completed an M.Phil. or equivalent degree in science policy studies or related area, or have demonstrated their research capability by way of equivalent published work in any area related to science policy studies. The Centre strongly recommends such direct Ph.D. scholars to audit the courses offered for M.Phil. students during the first two semesters while pursuing their doctoral research.

Students seeking admission to the Centre are required to bring with them a synopsis of 500 to 700 words research proposal for M.Phil. level and 1200 to 1500 words for direct Ph.D level indicating a research theme, its scope and objectives, statement of the problem, research methods and a brief review of literature at the time of interview.

8. Centre for Philosophy

The Centre was set up in 1999 in the School of Social Sciences. For a long time, the School and the University had felt the urgent need for an independent Centre for Philosophy. This was driven by the understanding that Philosophy must have a central place in an institution of higher learning and research. Further, that an engagement with Philosophy would strengthen the ongoing research in the various fields of knowledge in the University. It was this concern that led to the creation of the Centre for Philosophy in the School of Social Sciences.

The academic programmes of the Centre are intended to provide students with a deeper and more rigorous foundation in the discipline in Philosophy while simultaneously encouraging an engagement with substantive issues and contemporary concerns. The teaching and research work is designed to train students to read and engage critically with original philosophical texts, both classical and contemporary, with a high degree of methodological awareness; and to reflect systematically on concepts and problems central to Philosophy. The primary purpose of this is to create a body of scholarly work that can yield newer and richer reflections on philosophical problems and debates. The Centre would like to encourage research students to study issues and concerns in Philosophy cutting across diverse traditions and narrow disciplinary boundaries. It would also like students to move from exegesis to a problem-oriented study where philosophical reflection addresses concerns of present day society and polity.

The Centre offers a Direct admission to Ph.D. programme, M.Phil./Ph.D. and M.A. programme.

- (i) **Direct Admission to Ph.D. Programme:** The Centre welcomes applications in all major areas of Philosophy, such as, Ethics, Epistemology, Metaphysics, Legal and Moral Philosophy, Social and

Political Philosophy, Philosophy of Language, Philosophy of Mind, Philosophy of Action, Philosophical Psychology, Logic, Philosophy of Social Sciences, and History of Ideas.

The candidate at the time of viva-voce is expected to bring a research proposal of about 1500-2000 words.

- (ii) **M.Phil/Ph.D.:** The M.Phil. programme carries a total of 24 credits - 16 credits for the course work and 8 credits for the Dissertation. The course work consists of 2 compulsory papers of 4 credits each and 2 optional papers, also of 4 credits each. Every student is required to take two compulsory courses in the first semester of the programme, and they must successfully complete the entire course work in the first year of admission.

The two compulsory courses are: (i) Concepts in Philosophy, and (ii) Philosophical Methods. The aim of these courses is to critically engage with some of the core concepts of philosophy and to systematically introduce students to methods of philosophical enquiry by an in depth study of identified essential texts in Philosophy. In addition to this, the Centre offers a range of optional papers in the fields of Ethics and Moral Philosophy, Epistemology and Metaphysics, Philosophy of Action, Philosophy of Language, Philosophy of Culture, Philosophy of Mind and Consciousness, Philosophy of Social Science Studies in Analytical Philosophy, and Phenomenology and Existentialism. The choice of the two optional courses will be determined by the research interest and field of specialization selected by the student.

The course work for M.Phil. will consist of a combination of lectures, preparation and presentations of seminar papers, and participation in discussions on work in progress.

The candidate at the time of viva-voce is expected to bring a research proposal of about 1000-1500 words.

- (iii) **M.A. programme:** As a degree in Philosophy, the M.A. Programme of the Centre focuses on the study of the distinctive character of philosophical inquiry, debates in metaphysics, epistemology, logic and ethics. Since philosophical inquiry is not isolated but rooted in the basic questions of other academic disciplines and social life, students will be encouraged to comprehend the interdisciplinary and foundational character of philosophical studies. They will also be trained to identify and appreciate the sources of philosophical questions and puzzles in our reflections on language, thought, knowledge and values.

The programme will review and attempt to overcome the received binaries and dichotomies such as study of philosophy in terms of geographical and civilizational divisions, intra-disciplinary segregations like analytic philosophy and phenomenology, metaphysics and epistemology, moral and social philosophy, etc.

The programme aims to develop philosophical aptitude and analytical skills among the students through a rigorous training. An intensive study of

philosophical texts for a critical appraisal of concepts and arguments used by philosophers, and writing of philosophical essays will be an integral part of the programme.

The two year M.A Programme consists of 16 courses with 10 compulsory and 06 Optional courses of 04 credits each. These are Philosophical Studies: Problems and Perspectives; Epistemology and Metaphysics: Issues and Problems of Knowing and Being; Moral and Social Philosophy; Logic and Scientific Methods; Philosophy of Social Sciences; Philosophy of Language; Readings in 20th Century Indian Philosophy, Readings in Analytic Philosophy and Phenomenology; Seminar Course: Reading a Philosopher and Seminar Course: Project on a Philosophical Theme. Out of the 06 optional courses at least 04 should be chosen from the courses offered by the Centre.

All courses are lecture and seminar based. Students are required to write term papers/ tutorial assignments and give seminar presentations in each course. 50% of the grade depends on the student's performance in mid semester assignments and the remaining 50% is awarded on the basis of their performance in the end semester examination.

9. Zakir Husain Centre for Educational Studies

The Centre offers a programme of study leading to the degree of M.Phil. in Educational Studies and Ph.D. in Sociology of Education, Social Psychology of Education, History of Education and Economics of Education. The Centre focuses on the study of education from social science perspectives. Its teaching and research programmes are structured around social science disciplines of Economics, History, Sociology and Psychology. Accordingly, there are four streams of research and the curriculum for the M.Phil./Ph.D. programme is geared around them.

Economics of Education: Students are introduced to economic issues in education and a theoretical foundation for handling and analyzing of problems related to human resource development. Wider issues of education from the development economics perspective receive special attention. Other topics include investment decisions in education, financing of education, social choice dilemmas, international labour market, educational policy issues, migration of knowledge, workers, trade in education services and WTO, etc.

History of Education: The research programme on the history of education at the Centre has evolved along three distinct axes. The first has to do with the development and emergence of systems of education in India focusing on questions of the access to education from the perspectives of gender studies, and considerations of equity and social justice in the South Asian context. The second dimension has to do with the evolution of the system of higher education, again from the eve of colonialism into contemporary times. The focus is on the social history of higher education, with an emphasis on issues of the globalization and

naturalization of models of the university, and the transformation of knowledge ideals in changing political and socio-economic contexts. The attempt is to study historically the impact of the globalization of the university, on the one hand and the formation of academic disciplines within the university and research institutes on the other. And finally, a third area has to do with the history of science and technology in India, where in addition to looking at the philosophical, and social dimensions of the history of science education, research also focuses upon contexts, policies, and strategies of science communication and popularization.

Social Psychology of Education: The co-constitutive nature of cultural-historical processes and the psychological phenomena is problematized. The existing theoretical traditions within Psychology and their transformative roles in bringing about changes in the educational processes are examined. Areas such as cultural roots of learning with specific emphasis on language and mathematics learning, everyday and scientific cognition, personality, motivation, social cognition, inter-group dynamics and identity processes etc. and their implications for curricular and pedagogic practices in a multicultural-multilingual society are analysed.

Sociology of Education: Special emphasis is placed on issues relating to diversity equity and social justice; structure and processes of schooling and higher education; social and educational policy, social impact of globalization and privatization of the educational systems, and other contemporary concerns of education in the 'developing' world. Basic concepts and approaches in sociology, linkages of education with socialization, stratification, social change and mobility, social and educational inequality, etc. are some of the areas discussed from multiple theoretical standpoints in the sociology of education. Classroom teaching focuses on a comparative analysis of diverse social contexts within India and also other countries.

The scheme of teaching is as follows:

- a. A compulsory core course in Research Methods in Social Sciences as applied to Educational Studies, focusing on quantitative and qualitative techniques of data collection.
- b. A course on Education in India: Social Science Perspectives is to be taken by all students in the first semester.
- c. Introductory and advanced level courses in Economics of Education, Sociology of Education, History of Education and Social Psychology of Education are offered in the first and second semesters.
- d. A basket of optional courses is also offered in the second semester and students have to opt for one of them. Courses include Economic Policy in Education; Educational Thought in Modern India; Changing Conceptions of the Modern University; Education and Diversity in Multicultural Societies; Culture, Cognition and

Mathematics, International Migration and Skilled Diasporas; Multilingualism and Education; Cultural Psychology; and Gender and Education.

- e. A dissertation on a selected theme in one's specialization/stream is to be completed over the third and the fourth semesters.
- f. **Candidates who clear the entrance examination for M.Phil./Ph.D. programme should bring a brief research proposal of 1500 words at the time of the Viva-Voce. Those applying for Direct Ph.D. should send a detailed research proposal of at least 3500 words along with the application, indicating the scope of the problem chosen, preliminary review of literature, perspectives (theoretical and empirical) and methodology seen as relevant to the proposed study.**

The UGC has accorded the Centre the status of Department of Special Assistance (DSA). Earlier, the Centre was also accorded Assistance for Strengthening of Infrastructure for Humanities and Social Sciences by the UGC.

10. Centre for Women's Studies

The Centre undertakes both innovative, and intensive, interdisciplinary research and teaching, besides providing the space for creating a vibrant community of feminist academics, students, activists and artists concerned with issues of gender, and wider issues of power in society. The Centre regularly organizes lectures, seminars, workshops and film screenings on a wide range of subjects.

Currently, the Centre offers optional courses at the Master's level that are open to students not only in Social Sciences but also to those enrolled in other Schools and Centres of the University. Students learn to examine the historical, social, political, economic, and cultural dimensions of gender, while gaining a more complex understanding of the construction of gender and its intersection with other categories of difference, power, and inequality.

In Addition Centre for Women's Studies will continue to offer Direct admission to a Ph.D. Programme.

(a) Direct admission to Ph.D. programme

Centre welcomes applications in all subjects of Social Sciences & Humanities.

Ph.D. scholars will be required to complete course work in the first year after admission.

Direct Ph.D. candidates seeking admission to the Programme are required to submit a synopsis of roughly 1000 words on a research theme of their interest, indicating its scope, statement of the problem, methods and a preliminary review of literature.

(b) M.Phil./Ph.D.

Centre for Women's Studies will be offering M.Phil./Ph.D. course from 2014. M.Phil. in Centre for Women's Studies will have the following structure:-

- i) 16 credits in the first year in which period the student will do course work and another 10 credits in the second year, when she/he will write the dissertation in a chosen topic in the field. Therefore, in total the M.Phil. work will be 26 credits.
- ii) Each student will have to do one compulsory course, "Feminist Theory and Social Research". This is common for all students. In addition, they have a choice currently of Five papers of Four credits each, from which they may choose Three. These are in the fields of Labour, Work, Politics, Religion and Violence & Visuality and Ethnography.

The course work for M.Phil. will consist of a combination of lectures, preparation and presentations of seminar papers, and participation in discussions on work in progress.

The candidate at the time of viva-voce is expected to bring a research proposal of about 1000-1500 words.

11. Centre for the study of Discrimination and Exclusion(CSDE)

The Centre for the Study of Discrimination and Exclusion was initially launched in 2005 as a programme to document and analyse discrimination and exclusion in Indian society. Gradually it was expanded to study the structures and processes of exclusion and discrimination. The focus was primarily on discrimination and exclusion on the basis of caste, tribe and religion that barred social groups from full participation in the economic, social, political and cultural life of Indian society. It was proposed that such a Centre would be able to bring together the comparative and interdisciplinary framework necessary for a teaching and research programme that would study discrimination and exclusion given its diverse structural roots and varied forms and manifestations in different social and economic spheres. Presently the thrust of the centre is on study of Scheduled castes, Scheduled tribes and minorities keeping in mind intersectionalities such as class, gender, region and so on in Indian society.

During the last seven years, the CSDE has expanded its institutional base and resources by taking advantage of the UGC Scheme for the establishment of Centres for Study of Social Exclusion and Inclusive Policy (CSSEIP). The Centre focuses on a number of thematic issues such as histories from the margins; agrarian change and exclusions; Nations and borders; minorities; ethnicities; political economy of discrimination, power and discrimination, marginalisations, social policies, development and exclusion etc.

Students from all social science disciplines can apply for admission to the Centre.

The Centre offers the following courses:

(a) Direct admission to Ph.D. programme

The Centre offers Direct admission to its Ph.D. programme. CSDE welcomes applications in all major areas of Social Sciences. Candidates seeking admission to the Direct Ph.D. programme should

demonstrate their academic capability by preparing a well developed research proposal of roughly 2000 words, drawing out a specific theme, statement of the problem, literature review and relevant research methodology.

In addition to the essential qualifications as prescribed by JNU for the direct Ph.D. programme, the candidates should have awarded M.Phil degree in any area of Social Sciences or at least research experience of 2 years in a reputed institution with research publications of commensurate standard.

(b) M.Phil / Ph.D. programme

Admission to the integrated M. Phil./ Ph.D. programme is based on a written test and viva-voce examination. The candidates short-listed after the written examination are expected to bring a research proposal of about 1000-1500 words at the time of viva-voce.

The M.Phil programme carries a total of 32 credits (16 credits for course work and 16 credits for the Dissertation) and has to be completed in a maximum of four semesters. The course work consists of compulsory and optional papers and consists of a combination of lectures, preparation and presentation of seminar papers, and participation in discussions on work in progress. The students are required to finish the entire course-work in the first year of the M.Phil. Admission to Ph.D. programme is not automatic and is governed by prescribed university norms.

12. Centre for Informal Sector and Labour Studies

Centre for Informal Sector and Labour Studies is one of the newly created Centres with the objective of studying the informal sector which includes non-agricultural workers, agricultural labourers, peasants, fishermen, craftsmen, street vendors, domestic work etc. Since the overwhelming bulk of the working people are located in the informal sector which is also termed as the "Unorganized Sector", the focus of teaching and research in the Centre is on labour processes and working conditions in the unorganised sector in the contemporary world, particularly the developing countries. The Centre offers the following programmes:

(i) Direct admission to Ph.D. Programme

The direct Ph.D programme focuses on interdisciplinary research on Indian informal sector and labour scenario. The programme encourages to work on themes such as— Political Economy of State, Development and Underdevelopment in the contemporary world, Labour History, Globalization and the changing forms of Labour, Global Production Systems, Informalisation in various sectors, Labour Market, Forms of Employment, Poverty, Migration, Urbanisation, Labour Rights and Regulation, Workers' Organizations and Politics, Trade Unions, Resistance, Peasant Production, Non-farm Economy, Agrarian Change and Rural Development, Political Economy of Care, Discrimination on the basis of Caste, Gender and Community, Common Property Resources, Public Policies in the Unorganised Sector, and Sustainable Development. The objective of the programme is to

enable students to understand the linkages between the formal and the informal sectors and between theory and empirical investigations in research work.

(ii) M.A. in Development and Labour Studies

MA in Development and Labour Studies focuses on contemporary themes related to the informal sector and labour. Its main objectives are – (i) providing an interdisciplinary perspective on the contemporary themes and issues on informality and labour drawing from the disciplines of history, economics, sociology and political science, (ii) providing basic theoretical and empirical training to undertake in depth analysis of the structural changes and public policy challenges that confront the labour in the informal sector in the contemporary world.

The M.A. programme consists of 16 courses which are taught over four semesters. Of these 8 compulsory courses are spread over the first two semesters. These compulsory courses cover broad thematic areas which provide students with an overview of the subject and basic theoretical knowledge of the structural factors that impact on labour processes and the growing informalization. Eight Optional Courses will be offered in the third and the fourth semesters. Out of the eight Optional Courses, students will have to do seven Lecture Courses (up to a maximum of three can be chosen from outside the Centre) and one Seminar Course in the third and fourth semesters. The optional courses will focus on specific themes and problems to allow students to undertake in-depth analysis of recent debates and contemporary areas of research in labour processes and unorganised sector. Seminar Courses will focus on introducing students to original research in various themes of informal sector and labour.

13. Centre for Media Studies

The Centre for Media Studies (CMS) has been established with an aim to be an academic location for the development of a critical understanding about media and its engagement with society, culture, polity and economy. Envisaged primarily as a centre for research and academic study, the Centre's research concerns include the history of media, its effective and affective roles in everyday life, and its functioning in different forms, i.e., electronic, visual, print, etc., in diverse socio-cultural and political milieu. The areas with which the Centre will engage in research and teaching activities include:

1. Histories of media
2. Political economy of Media
3. Media and issues of Language
4. Media, democracy, and dimensions of rights and justice
5. Violence and media
6. Media, technologies and cultural industries
7. Media and the nature of connectivities
8. Visual culture

(a) Direct admission to PhD programme: The Centre for Media studies offers a direct PhD programme in the

broad areas mentioned above. Those who wish to apply for admission in the direct PhD programme should fulfill all the entry level requirements laid down by the University. They should have a two year M.Phil degree in social sciences/ Humanities /Media and cultural studies from a recognized institution. The admission will depend on the strength of the research proposal, the research potential of the proposed field of study and its interdisciplinary relevance. Candidates are required to submit a synopsis of about 1000-1500 words on a research theme which they intend to study.

(b) M.Phil/Ph.D.

The Centre for Media Studies will be offering an integrated MPhil/PhD programme from 2015. Students admitted into the programme will study four courses in the first two semesters of which two will be compulsory courses to be studied by all students. The two compulsory courses are: 1) Media Research Methods and (2) Media Theory. Students can choose two optional courses from a basket of courses offered by the Centre according to their research interests and specialization. The MPhil programme carries a total of 24 credits of which 16 credits are for the course work that the student will do in the first year, and 8 credits for the Dissertation, which will be written in the following year.

The course work for MPhil will have a combination of lectures, tutorials, preparation and presentation of seminar papers, book reviews, class room tests and participation in discussions on work in progress.

For admission in the MPhil/PhD programme students are required to appear in a written entrance examination, the dates of which will be notified on the University website. Students will be shortlisted for a viva-voce on the basis of their scores in the entrance examination, where they will be expected to bring a research proposal of about 1000-1500 words.

14. Group of Adult Education

The Group of Adult Education (GAE) conducts research, information and documentation, teaching and outreach programmes in the area of both the formal and non-formal education. These main thrust areas include 'literacy studies' (e.g. basic literacy, adult literacy, consumer literacy, legal literacy, environmental literacy, health literacy, media literacy, and citizenship literacy), adult education, lifelong learning, community education, development education and vocational and continuing education in India and abroad. The GAE also focuses on problems of contemporary youth and their lifestyles and the impact of globalization on market practices with special emphasis on consumer rights and their public awareness. By linking education research, policy and practice in all these areas, GAE makes a special contribution to enhancing access to learning and improving professionalism in social and educational sectors.

Presently, the GAE has faculty members from the disciplines of education, economics, history, political

science and sociology. It offers optional course (including one on research methodology) which are credited by students across other Centers and School in the University.

The Group is offering direct PhD programme for students of social sciences, humanities, arts and media studies and for professional engaged in development and social sectors.

15. North East India Studies Programme (University level programme)

The North East India Study Programme (NEISP) is a University level programme involving Five Schools of the University (School of Language, Literature and Culture Studies/School of Social Sciences/School of Arts and Aesthetics/School of Environmental Sciences/School of International Studies). The programme aims at developing multi-disciplinary perspective in understanding North East India and its neighbouring areas. Though NEISP is a University level programme, it is currently located in the School of Social Sciences.

The NEISP undertakes critical research and aims to build a body of scholarly works on the north east India and its neighbouring areas. NEISP has started Direct Ph.D. programme from the academic year 2012-13. The broad areas in which research is focused are; (i) Language, Culture and Society; (ii) History, Society and Politics; (iii) Development, Science, Technology and Environment; and (iv) Migration, Livelihood, Security and Public Policy.

The direct Ph.D. candidates seeking admission to the programme are required to submit a brief research proposal (1500-2000 words) indicating the research problem, nature and scope, theoretical and conceptual understanding, methodology and review of literature of the work the candidate proposes to undertake. They are also expected to have initial research experience or sound knowledge on the region.

In addition to Direct Ph.D. programme, NEISP offers four optional courses on History, Politics, Literature and Society of North East India for the Undergraduate students of the School of Language, Literature and Culture Studies. NEISP will also be Introducing MA optional courses for the Post Graduate students of the University.

(C) ELIGIBILITY FOR ADMISSION

(i) Direct Admission to Ph.D. Programme

Only those candidates shall be considered for Direct admission to the Ph. D. Programme who have —

- (a) obtained M.Phil./MD/MPH degree of a recognized University/Institution as relevant to each centre; OR
- (b) at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil./MPH standard. In addition, they should have obtained Masters Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

--- **For Centre of Social Medicine & Community Health,** In case of doctors and nurses, MBBS/M.Sc. Nursing with M.Phil./MD/MPH degree of a recognized University/ Institution OR

at least 2 years research experience in community health with research publication(s) comparable to M.Phil./MPH standard. In addition, they should have obtained Masters Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

In case of social sciences and other disciplines allied to public health (as given for M.Phil./Ph.D. on page 33), a Master's degree with an M.Phil. degree or a Masters Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale with at least 2 years experience in public health and research publication(s) equivalent to M.Phil.

--- **For Centre for Political Studies:** Those who wish to apply for a research degree are expected to have a strong, detailed and well developed research proposal for a thesis that can be supervised in the Centre. In addition to fulfillment of the entry requirements, they will need to approach the subject with rigor and appropriate knowledge of the field.

The candidate should have extensive knowledge of the domain.

Candidates must submit a detailed research proposal at the time of application for admission.

--- **For Womens Studies Programme,** in case of work experience (minimum 2 years) in an NGO (related to gender issues), again candidate must provide research publications equivalent to M.Phil. In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

--- **For Centre for the study of Discrimination and Exclusion,** Research/Publications in the areas of Discrimination and Exclusion with special reference to Scheduled Caste, Scheduled Tribes and Minorities are desirable.

--- **For Group of Adult Education** In addition to (a) and (b) in C(i) above, those candidates who have two years (full-time) work/professional experience in the area of NGO sector, development and social sectors, governmental sector, main 'literacy studies' or work areas (such as basic literacy, adult literacy, consumer literacy, legal literacy, environmental literacy, health literacy, media literacy, citizenship literacy) with research publication(s) comparable to M.Phil. standard are also eligible for the direct PhD programme. In this case, such candidates must have obtained their Master's degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale from a recognized university.

--- **For Centre for Media Studies** candidates must have obtained a two year M.Phil. degree in the Social Sciences/Humanities/Media and cultural Studies from recognized University/Institution; OR at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard. In addition, they should have obtained Masters Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

--- **For Centre for Informal Sector and Labour Studies** In addition to (a) and (b) in C(i) above, M.Phil or equivalent Research/Publications in the areas of informal sector and labour studies. Students from all disciplines in Social Sciences and Humanities can apply for admission to this programme. They will be expected to have a well developed research proposal which focuses on issues related to informal sector and labour. They also need to be aware of the available literature in their proposed research areas. Candidates will be assessed on merit, analytical framework and the relevance of the research proposal to broad theme of informal sector and labour. After the shortlisting of the application based on the fulfillment of the entry requirements and the merit of research proposal submitted (of about 2000 words) candidates will be called for an interview. The final selection will be based on the interview.

(ii) **M.Phil./Ph.D.**

Masters degree in the subject concerned with at least 50% marks; or Master's degree in allied subjects or Humanities with at least 55% marks; or Masters degree in Natural Sciences with at least 60% marks.

For Centre for Studies in Science Policy: Master's degree in Social Science or Humanities or Law or Management with 55% marks or Master's degree in Natural Sciences or Bachelor's degree in Engineering or Technology or Medicine with 60% marks. **For Centre of Social Medicine and Community Health (M.Phil./Ph.D. in Social Science in Health):** Masters degree in social sciences or other disciplines allied to public health (as given on page 34) with 55% marks. **For Centre for Women Studies:** Master's degree in Social Science or Humanities or Law with at least 50% marks. **For Centre for the Study of Discrimination and Exclusion:** Masters degree in Social Sciences with at least 50% marks. **For Centre for Media Studies:** Masters degree in Social Sciences or Humanities or Law or Cultural Studies or Media Studies with at least 50% marks.

(iii) **Master of Public Health (MPH/Ph.D. in Community Health)**

MBBS degree with at least 50% marks or M.Sc. degree in Nursing with at least 50% marks.

(iv) **M.A.**

(a) **M.A. in Geography and Sociology**

Bachelor's degree in any discipline under 10+2+3 pattern of education with at least 45% marks.

(b) **M.A. in Economics**

Bachelor's degree in any discipline under 10+2+3 pattern of education with at least 50% marks. Knowledge of Mathematics at 10+2 level is expected and will be tested for in the Entrance Examination.

(c) **M.A. in Political Sciences**

Bachelor's degree under 10+2+3 pattern of education with at least 50 % marks in Social sciences and 55 % marks for those who have Bachelor's Degree in science and technology disciplines.

(d) **M.A. in Philosophy**

Bachelor's degree under 10+2+3 pattern of education with at least 50% marks in Social Sciences and Humanities and 55% marks in Science & Technology disciplines.

(e) **M.A. in History and Development & Labour Studies**

Bachelor's degree in any discipline under 10+2+3 pattern of education with at least 50% marks.

Main and Allied subjects for purpose of Eligibility for admission to M.Phil./Ph.D. and MPH/Ph.D. programme of study in the School of Social Sciences

1. **Centre for Economic Studies and Planning**

Main Subject - Economics

Allied Subjects - History, Political Science and Sociology, Mathematics and Statistics.

2. **Centre for Historical Studies**

Main Subject - History

Allied subjects - Political Science, Economics, Sociology and Geography.

3. **Centre for Political Studies**

Main Subject - Political Science

Allied Subjects - All other Social Science Subjects.

4. **Centre for the Study of Regional Development**

Main Subject - Geography, Population Studies and Economics

Allied Subjects - All other Social Science Subjects.

5. **Centre of Social Medicine and Community Health**

MPH/Ph.D. Main Subject - Medicine and Nursing (Allopathic)

Allied Subjects - None

M.Phil./Ph.D. Main Subject - Sociology, Psychology, Anthropology, Economics, Political Science, History, Social Work, Geography, Population Studies, Public Administration, Communication, Nutrition.

Allied Subjects - Applied Health Sciences and Technology, Humanities, Management and Rural Development.

6. **Centre for the Study of Social Systems**

Main Subject - Sociology

Allied Subjects - Social Anthropology, Political Science, Economics, Psychology, History, Public

Administration, Geography, Philosophy, Socio-Linguistics and any other Social Science discipline.

7. Centre for Studies in Science Policy

Main Subjects - Social Sciences and Humanities

Allied Subjects - Law and Management Science Subjects -Natural Sciences, Engineering, Technology and Medicine.

8. Centre for Philosophy

Main Subjects - Philosophy

Allied Subjects - Social Sciences, Humanities, Natural Sciences & Technology

9. Zakir Husain Centre for Educational Studies

Main Subjects - Economics, History, Psychology, and Sociology.

Allied Subjects - (i) Education-this should be two year's Masters programme and not M.Ed.,which is only a nine months/one year programme, Political Science, Philosophy, Social Anthropology, Geography, and other Social Science (including Socio-linguistics, Child Development and Social Work.). (ii) Other Sciences and Humanities.

10. Centre for Women's Studies

Main Subject - All Social Sciences & Humanities subjects including Political Science, History, Sociology, Anthropology, Economics, Geography, Education, Psychology, Law, Literature, Arts & Aesthetics, Philosophy.

11. Centre for the study of Discrimination and Exclusion(CSDE)

Main Subject - Political Science, History, Sociology, Anthropology, Economics, Geography, Education, Psychology and Law

12. Centre for Media Studies

Main Subject: All social sciences and humanities subjects including Media Studies, Cultural Studies, Women's Studies, Political Science, History, Sociology, Philosophy, Anthropology, Economics, Law, Literature, Arts & Aesthetics.

5. SCHOOL OF ENVIRONMENTAL SCIENCES

Environmental sciences as a discipline was incepted at JNU in 1974 as a bold step to clear precept of frame the boundaries across disciplines—Mathematics, Physics, Chemistry, Biology, Geology. The school is truly multidisciplinary in studies and focuses. From the school's research and teaching program intentions and efforts were to allow the interaction between pure natural sciences and expect the evolution of meaningful, viable and sound academic curriculum where Environmental Science remains a central focus, having objective assessments of its accomplishment in Teaching, Research, and Affecting and Shaping the policy. Dedicated multidisciplinary research works by Faculties of The School of Environmental Science are involved in diverse scientific interests to carry on the original field of work in different aspect of Environment and its natural resources with association of the society and its anthropogenic activities. Uptake of research scholars with all diversified interests built

up the school with a different perspective to fight against all environmental impacts.

The school offers Direct Ph.D., M.Phil./Ph.D and M.Sc. programmes. The School is distinguished for recipient of UGC sponsored special assistance programme (SAP)/DSA/DRS programmes, FIST sponsored by the DST and the ENVIS center sponsored by the Ministry of Environment and Forests, Government of India. Academic activities of the faculties have been recognized both nationally and internationally and several of them are recipients of various research projects, funded by governmental and intergovernmental agencies such as DST, DBT, DOD, UGC, ICMR, CSIR, MOEF, Global Environment Facility, UNESCO, NIC, DTRL, MOWR and others. Several faculty members are part of various committees constituted by the Central and State Governments. The School has set-up a Central Instrumental Facility (CIF) housing many state of art of analytical instruments includes: CHNSO Analyser, Gas Chromatograph, Atomic absorption spectroscope, UV-Vis Spectrophotometer, Scintillation Counter, AKTA system, XRD, Real Time PCR, Microwave Digestion, AXIOSKOP AXIOVERT microscope and Fluorescent Microscope, Flow Cytometer, OC/EC analyzer, Ion exchange Chromatograph, Ultra-centrifuge, Spectoradiometer, Atomic absorption spectroscope, WD – XRF etc. Other than that a well equipped M.Sc. laboratory with some essential small instrumental facilities, an inhouse library facility and one computational laboratory with internet facilities are provided to the student community to strengthening their scientific awareness with global challenges.

a) In 2010 the School has developed a mode of International facility as SEVAN (Space Environment viewing and Analysis Network) supported by NASA and AOARD (JAPAN).

b) Since last couple of years the School has developed Aerosol analysis and its interpretation in climate change.

c) The School has developed weather prediction system.

(A) PROGRAMMES OF STUDY

(i) Direct Admission to Ph.D. programme

Students admitted for direct Ph.D. are required to go through course work and secure, required CGPA as decided by the School.

(ii) M.Phil/Ph.D.

Category-I (through entrance examination): The activities of the School are inter-disciplinary. The School endeavors to study the problem of environment in an integrated manner using the principles of Physics, Chemistry, Mathematics, Geology and Biology. The M.Phil./Ph.D. programme, started in 1975, has also undergone periodic changes. It includes extensive course work followed by a dissertation, which leads, upon successful completion, to the M.Phil degree. This is followed by research work for Ph.D. on an approved topic for a minimum of two years. Approval and successful defense of a thesis is required for a Ph.D. Degree. The candidates may give their preference to any two research areas of the following four research areas at the time of applying. The candidature of those

candidates applying for more than two research areas is likely to be rejected. Therefore, candidates are advised in their own interest not to apply for more than two research areas. Based on performance in entrance exam, candidates will be called for interview. At the time of interview the candidates will have to give their preference for research topics within the area they have been called for. The research specializations of each faculty are described in the JNU web site.

Category II (NET Qualified candidates): Candidates who have qualified for Junior Research Fellowship through CSIR/UGC National Eligibility Test (NET/Equivalent) examination are eligible to apply separately in the prescribed form under this category. Candidates shall have to appear for an interview (as in category I) and their selection will depend on their performance in the interview. Candidates who have appeared in the CSIR/UGC NET examination but results awaited may also apply under this category. However, such candidates will be interviewed upon submission of a valid proof of having qualified for or awarded the JRF certificate at the time of interview. Moreover, only candidates with valid proof of JRF qualification would be provided permissible travelling allowance for attending interview. Please note that candidates who have been awarded "Lecturership" in the CSIR/UGC examination are not eligible and will not be interviewed.

Selected candidates are required to successfully complete seventeen credits of course work and seven credits of dissertation to become eligible for registration to the Ph.D. programme. In some cases, if the students complete the course work with a CGPA of 6.5 or more the students may be permitted to register directly for Ph.D., without submitting a dissertation worth 7 credits.

Research Area-I: Aspects of Theoretical Physics and Applied Mathematics, Application of the discipline to the study of Environmental Problems, Meteorology, Air Pollution, Noise, Lasers, Microwaves and their application in Remote Sensing, Development of Mathematical Models to Understand Environment.

Research Area-II: Application of Geology Geochemistry and Biogeochemistry to problems of surface earth processes, water bodies including ground water, glaciers, Coastal Aquatic Systems, Estuaries and Mangroves, soils/ sediments, Mineral Deposits and Mining Pollution. Remote sensing applications in Geosciences.

Research Area-III: Application of Chemistry in monitoring and management of Air, Water and Soil Pollution, Biogeochemical Cycling.

Research Area-IV: Ecosystem Dynamics, Cellular and Molecular Biology, Biochemistry, Biophysics and Biotechnology in Environmental Science, Physico-Chemical aspects of air/water pollution, Molecular Microbial Ecology, Bioremediation and Bioconversion of xenobiotics, Environmental Cancer Biology, Environmental Toxicology, Antimicrobial Agent Discovery & Development, Bioaerosols and Environmental Pathogen.

(iii) **M.Sc in Environmental Sciences**

The School offers a two years interdisciplinary M.Sc. programme in Environmental sciences. The program covers various aspects of the environment by providing indepth understanding of issues at local, regional and global level; using interdisciplinary teaching/research/field work resources. Well designed contemporary courses are offered to ensure development of scientific understanding of the environmental problems. The courses offered fall under four categories: (i) Core courses, (ii) Optional courses (iii) Remedial courses and (iv) Non-credit courses. The M. Sc. programme is spread over four semesters. It carries 64 credits and comprises of four different components viz: I) Teaching, II) Lab Work, III) Field Work and IV) Dissertation. The subjects areas covered require knowledge of the basic scientific disciplines (Mathematics, Physics, Chemistry, Biology, and Geology). Detail about all the courses offered in this programme can be obtained from the Jawaharlal Nehru University Website.

(B) **ELIGIBILITY FOR ADMISSION**

(i) **Direct Admission to Ph.D. Programme**

Only those candidates shall be considered for Direct admission to the Ph. D. Programme who have –

- (a) obtained M.Phil./M.Tech./MD degree of a recognized University/Institution; OR
- (b) at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard. In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

(ii) **M.Phil./Ph.D.:** M.Sc. degree or equivalent in any branch of basic or applied science or MBBS or B.Tech. /B.E. with minimum 55% marks. After selection on the basis of either through entrance examination (Category I) or as JRF-NET qualified candidates (Category II) they have to provide their preference for research specializations representing the faculties within the Areas applied for.

(iii) **M.Sc.:** Bachelor's degree in any branch of basic or applied science under 10+2+3 pattern of education with at least 55% marks.

6. SCHOOL OF COMPUTER & SYSTEMS SCIENCES

The School of Computer & Systems Sciences was established way back in 1975. It is one of the foremost institutions to start teaching and research programmes in the broad areas of computer science. The School has established itself as one of the most prestigious institutions in the area of computer education in the country. The School offers programmes of instruction and research leading to degree of MCA, M.Tech.(M.Phil.) and Ph.D. It attracts best of the students from all over the country. Every year around ten thousand students including applicants from the

neighbouring SAARC countries, appear for the MCA and M.Tech. entrance examination. The popularity of the courses offered can be judged from the excellent (100%) placement of successful students in the best of the companies in the field of Computer Science and Information Technology. The graduates from the School have been placed in companies such as IBM, CSC, TCS, Flextronics, Siemens, HP, Parot Systems, CSG, Accenture, Cadence, Genpact, etc. The School has also trained students from foreign universities in the field of Computer Science.

The School continues to be at the forefront of offering interdisciplinary courses - a goal in JNU's charter. The School has the following specialized laboratories where M.Tech./M.Phil., Ph.D. students are actively engaged in research: Artificial Intelligence & Software Engineering, Data Communication and Networks, Microprocessor and Operating Systems, Multimedia & Modelling, Natural Language Processing, Parallel Processing and Distributed Computing, Systems Software.

THRUST AREAS: Computer Graphics, Databases, Data Mining, Data Warehousing, Knowledge Engineering, Mobile Networks, Modelling and Simulation, Natural Language Processing, Optimization Theory, Parallel and Distributed Computing.

(A) PROGRAMMES OF STUDY

(i) Direct Admission to Ph.D. Programme

Course Work - The selected candidates are required to take a minimum of six courses (including the seminar course of 3 credits) within first two consecutive semesters.

Successful completion of course-work is pre-requisite for confirmation in the Ph.D. programme. **Due to the structure of the course work, admission to Direct Ph.D. programme is considered only in the Monsoon Semester.**

(ii) M.Phil./Ph.D. and M.Tech/Ph.D. (Computer Science & Technology)

Category-I (through entrance examination): Candidates must appear in the written examination conducted by the University. Based on the written test, short-listed candidates will have to appear in the interview. Admission is offered to candidates, finally selected on the basis of their performance in the written test and the interview.

Each student aiming to obtain an M.Phil./Ph.D. or M.Tech./Ph.D should clearly mention the stream, viz M.Phil/Ph.D. or M.Tech./Ph.D. in the application form. No change-over from one stream to another will be allowed after the confirmation of the admission.

Category II (NET Qualified candidates) : Candidates who have qualified for Junior Research Fellowship through CSIR/UGC National Eligibility Test (NET) examination are eligible to apply separately in the prescribed form under this category. Candidates shall have to appear for an interview and their selection will depend on their performance in the interview. Candidates who have appeared in the CSIR/UGC NET examination but results awaited may also apply

under this category. However, such candidates will be interviewed upon submission of a valid proof of having qualified for or awarded the JRF certificate at the time of interview. Moreover, only candidates with valid proof of JRF qualification would be provided permissible travelling allowance for attending interview. Please note that candidates who have been awarded "Lecturership" in the CSIR/UGC examination are not eligible and will not be interviewed.

Duration of Course: The course work shall be completed within first two consecutive semesters and the dissertation in the subsequent third and fourth semesters.

Credit Requirements: No student admitted to the programme shall be eligible for the award of M.Tech. degree unless he/she secures 50 credits in all out of which at least 30 credits shall be for course work, 5 credits for seminar and 15 credits for the dissertation. In some cases, if the students complete the course work with the CGPA of 6.5 or more the students may be permitted to register directly for Ph.D. without submitting an M.Tech. dissertation.

(iii) MCA (Master of Computer Applications)

Students are admitted to the MCA programme each year on the basis of their performance in the written test conducted by the University.

This three-year programme is designed to provide necessary theoretical background and practical experience in Computer Science and Applications to meet the growing manpower requirements in automatic computing.

SCHOLARSHIPS: Scholarships of the value of Rs.600/- per month will be awarded during the fifth and sixth semesters to those students of MCA programme who have met the prescribed grades/courses requirements.

(B) ELIGIBILITY FOR ADMISSION

(i) Direct Admission to Ph.D. Programme

The candidates interested in research in Communication Networks, Data Warehouse, Software Engineering, Service Oriented Architecture, Wireless Communication, Ad Hoc Networks, Sensor Network, Data Mining, Pattern Recognition, Image Processing, Database, Soft Computing, Text Mining, Web Mining, Natural Language Processing, MEMS, RF MEMS, BIOMEMS, Non-Silicon Technologies, VLSI Embedded System will be considered for Direct Admission to Ph.D. programme this year.

Only those candidates shall be considered for Direct admission to the Ph.D. programme who have

- a) obtained 2 years M. Tech/M.Phil degree of a recognized University/Institution, (except those who joined M.Tech on or before (2002-2003). In addition the applicant should have at least one research paper published in an international journal listed in Science Citation Index (SCI) or SCIE (Expanded) to be eligible

to apply for the direct admission to Ph.D. programme. OR

- b) at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Tech/M.Phil standard. In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale. The applicant should have at least two research papers published in an international journal listed in Science Citation Index (SCI) or SCIE (Expanded) to be eligible to apply for the direct admission to Ph.D. programme.
- (ii) **M.Phil./Ph.D. and M.Tech./Ph.D.:** Master's degree in Computer Science or Mathematics or Statistics or Operational Research or in any branch of Science or Bachelor's degree in any branch of Engineering or Master of Computer Applications (MCA) with at least 55% marks.
- (iii) **M.C.A.:** Bachelor's degree in any discipline with adequate competence in Mathematics under 10+2+3 pattern of education with at least 55% marks.

7. SCHOOL OF PHYSICAL SCIENCES

The School of Physical Sciences (SPS), is one of the leading departments in India in terms of research and teaching in Physical Sciences. Recently, the school has started Ph.D. programmes in Chemical and Mathematical Sciences as well. Over the years, the SPS faculty has made significant contributions to novel interdisciplinary areas interfacing Physics, Chemistry and Mathematics, in addition to the more traditional areas of Physics. The school has state of the art computing facilities and well-equipped laboratories for Physics and Chemistry and a rich library with an excellent collection of books on Mathematics, Physics and Chemistry.

The research emphasis of the Physics group has been on topics in Chemical Physics, Computational Physics, Condensed Matter Physics, Disordered Systems, Granular Materials, Mathematical Physics, Non-equilibrium Statistical Mechanics, Nonlinear Dynamics, Probability Measures, Quantum Chaos, Quantum Optics, Statistical Nuclear Physics, and String Theory. Active research is also undergoing in the areas of Complex Fluids, Supramolecular Chemistry, Nano-Chemistry, Materials Science, Superconductivity, Magnetism, Nonlinear Optics, Semiconductors, Polymers and Nanoparticle Physics, and Ultrafast Photophysical Processes in Bio and Nano-materials.

The Chemistry group expertises in the areas of Supramolecular Chemistry, Spectroscopy, Synthetic Organic Chemistry, Organic-Inorganic hybrid materials, MOF and zeolite membranes and Bio-physical Chemistry.

The Mathematics group has been working in the areas of Algebra, Number Theory, Elliptic Curves, Ergodic Theory and Dynamical Systems, Probability Theory and Operator Algebras.

The research and teaching contributions of SPS have been acknowledged in various ways. Many of our students have gone on to become faculty and scientists in leading institutions and laboratories in India and abroad. Many of the faculty members are frequent speakers at national and international conferences. The faculty and students regularly publish research papers in top international journals and their publications have received extensive citations in the scientific literature. Some faculty members have received prestigious awards and been elected fellows of some reputed scientific academies as well. In recognition of the excellence in the teaching and research programmes at SPS, the UGC has been continuously supporting the SPS since 1994 through various schemes such as DRS-COSIST and DSA. Apart from the UGC support, SPS also received major funding from the DST under the FIST programme in 2002, 2007 and 2014. It is also worth mentioning that SPS faculty members have attracted considerable individual support through research projects from CSIR, DST, DBT, UGC, etc.

(A) PROGRAMMES OF STUDY

(i) Direct admission to Ph.D. programme in Physical Sciences

Suitable courses may be prescribed for candidates admitted to the Direct Ph.D. programme.

(ii) Ph.D./Pre-Ph.D. programmes in Physical Sciences/ Chemical Sciences/Mathematical Sciences

Candidates selected through the written entrance examination or through the JRF channel are required to take a minimum of five courses (including Research Courses if prescribed) in the first two semesters. Satisfactory completion of the Pre-Ph.D. course work (according to the JNU Ordinances) is a prerequisite for confirmation in the Ph.D. programme.

(iii) M.Sc. in Physics

The detailed syllabus of the M.Sc. programme is available at the JNU website. The salient features of the syllabus are: (a) emphasis on core aspects of modern physics, and (b) emphasis on laboratory training. The M.Sc. programme is nurtured as an integral part of the research activities of the School.

(B) ELIGIBILITY FOR ADMISSION

(i) Direct admission to Ph.D. programme

Candidates shall be considered for Direct admission to the Ph.D. programme on the following basis:

- M. Phil./M.Tech. or equivalent degree from a recognized University/Institutions. OR
- At least 2 years' research experience in a reputed institution with research publication(s) comparable to the M.Phil. standard. In addition, they should have obtained a M.Sc. degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.
- They should also satisfy the academic background criteria specified in (B)(ii)/Category I below.

(ii) PRE-PH.D./PH.D. PROGRAMME**CATEGORY I (THROUGH ENTRANCE EXAMINATION):**

- a) **For Physical Sciences**, M.Sc. degree in Physics, Chemistry or Mathematics, with at least 55% marks. Candidates having majored in Physics or Chemistry should have had Mathematics at least up to the B.Sc. level. Exceptions can be made in case of applicants with B.Tech. (Electronics/Electrical) degrees provided they successfully qualify the entrance examination.
- b) **For Chemical Sciences**, M.Sc. degree in Chemistry or Physics, with at least 55% marks. Candidates majoring in Chemistry should have specialization in Analytical/Organic/Inorganic/Physical Chemistry/Chemical Physics/Polymer Chemistry at the Master's level.
- c) **For Mathematical Sciences**, M.Sc. degree in Mathematics, with at least 55% marks.

CATEGORY II (NET QUALIFIED CANDIDATES):

Candidates who satisfy the background criteria specified above for Category I candidates and have qualified for Junior Research Fellowship through CSIR/UGC National Eligibility Test (NET) or NBHM Ph.D. scholarship test are eligible to apply separately in the prescribed form under this category for all the three programmes i.e. Physical, Chemical and Mathematical Sciences. Candidates shall have to appear for an interview and their selection will depend on their performance in the interview. Candidates who have appeared in the CSIR/UGC NET/NBHM examination but whose results are awaited may also apply under this category. However, such candidates will only be interviewed upon submission of a valid proof of having qualified for or awarded the JRF certificate at the time of interview. Moreover, only those candidates with valid proof of JRF qualification would be provided permissible travelling allowances for attending the interview. Please note that candidates who have been awarded "Lectureship" in the CSIR/UGC examination are not eligible and will not be interviewed.

(iii) M.Sc. (Physics) Programme:

Bachelor's degree (with Physics as one of the subjects) under the 10+2+3 pattern of education with 55% marks in the aggregate (or in Physics, Chemistry and Mathematics combined), or in Physics Honours. Applicants with B.Tech. (Electronics/Electrical/Mechanical/Computer) degree can also apply.

8. SCHOOL OF COMPUTATIONAL AND INTEGRATIVE SCIENCES

The **School of Computational and Integrative Sciences** (formerly the School of Information Technology), Jawaharlal Nehru University, presently houses the **Center for Computational Biology and Bioinformatics**, a Center of Excellence of the Department of Biotechnology, Govt. of India.

Additionally SCIS has initiated the **Center for Complex Systems**, introduced and supported in the XIIth Plan by the UGC. The major objective of SCIS is the integration of skills from different disciplines with application to problems in the natural and social sciences. This mission is reflected in the diverse faculty profile of the school which comprises of researchers from fields as varied as Computational Biology, Complex Systems, Statistical Data Analysis and Modeling, Computer Science, and Theoretical and Computational Chemistry.

Teaching and research programs in **Computational and Systems Biology** involve the research, development, or application of computational tools and approaches for expanding the use of biological, medical, behavioral or health data, including those to acquire, store, organize, archive, analyze, or visualize such data. In addition, research programs involve the development and application of data-analytical and theoretical methods, mathematical modeling and computational simulation techniques to the study of biological, behavioral, and social systems. The School has initiated a program in **Complex Systems** which will study the behavior of mathematical, physical, living and social systems, identify patterns that underlie these inter-related systems, and examine properties such as emergence, evolution, network, structure and dynamics of these systems in a competitive environment.

SCIS is offering an integrated **M.Sc./Ph.D. degree in Computational and Integrative Sciences** with a specialization in either Computational Biology or Complex Systems. The Computational Biology stream will have equivalence to the M.Sc. in Bioinformatics, while the Complex Systems stream will have equivalence to the M.Sc. in Physical Sciences. Additionally, SCIS also offers admission to its Pre-Ph.D. and Direct Ph.D. programs in Computational Biology and Bioinformatics. The School has encouraged intake from multiple disciplines into these programs - Information Technology, Engineering Sciences, Bioinformatics, the Life Sciences/Biotechnology, the Physical and Chemical Sciences, among others.

The teaching and research programs are supported by good computational and communication infrastructure. Each student is provided with a personal workstation, and the School manages a centralised facility for high-performance computers, consisting of computer clusters with multiprocessor nodes, large-memory nodes and GPUs to facilitate specialized research

A) PROGRAMMES OF STUDY

School of Computational and Integrative Sciences offers the following three academic programmes for the current year

(i) Direct admission to Ph.D. program in Computational Biology and Bioinformatics, Complex Systems

Suitable courses may be prescribed for candidates admitted to the Direct Ph.D.

(ii) Pre-Ph.D./Ph.D. in Computational Biology and Bioinformatics

Candidates selected through the written examination or through the JRF channel are required to take courses prescribed by the School in the first two semesters. Satisfactory completion of the coursework is a

prerequisite for confirmation in the Ph.D program, as per the JNU ordinance.

(iii) Integrated M.Sc-Ph.D. programme in Computational and Integrative Sciences

with a specialisation either in Computational biology or Complex Systems

1. The course work leading to the award of a M.Sc. in Computational and Integrative Sciences shall be for a period of four semesters (two monsoon and two winter semesters) with a compulsory requirement for submission of a research-based dissertation at the end of the fourth semester. A student will need to earn a minimum of 72 credits, including 9 credits for the dissertation.
2. A student who successfully completes the first two years of the M.Sc.-Ph.D. integrated program (M.Sc. phase) with a CGPA of 4.0 and above would be awarded an M.Sc. degree.
3. A student desirous of continuing to the Ph.D. program in Complex Systems or Computational Biology will be eligible for enrollment in the Ph.D. program provided he/she has secured a minimum CGPA of 6.5 in the M.Sc. (CGPA 6.0 in case of SC/ST candidates).
4. The students continuing for the Ph.D. program would be further required to undergo course work for one (monsoon) semester.

(B) ELIGIBILITY FOR ADMISSION

(i) Direct admission to Ph.D. Programme

Direct Admission to Ph.D. Program in Computational Biology and Bioinformatics, Complex Systems is available.

Only those candidates in science/Engineering branch shall be considered for Direct admission to the Ph.D. program who have :

- a) Obtained M.Phil/M.Tech. degree in the related field like science, engineering, medical and pharmaceutical science from a recognized university/institution. OR
- b) At least 2 years research experience in reputed institutions in the related fields with research publication(s) comparable to M.Phil standard. In addition, they should have obtained Master's Degree in the related field with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.
OR
- c) Candidates with Advanced Diploma (after M.Sc. degree) in Bioinformatics are also eligible.

(ii) Pre-Ph.D/Ph.D. programme

Pre-Ph.D./Ph.D. in Computational Biology and Bioinformatics

Category 1 (through entrance examination):

- (a) Master's Degree in any branch of Sciences such as Biology, Chemistry, Bioinformatics,

Mathematics, Physics, Statistics, Computer Science/MCA.

- (b) MBBS or BHMS or equivalent degree as recognized by Government Council such as MCI.
- (c) B.Tech or B.E. or equivalent degree in any branch of Engineering, B.Pharm degree or equivalent.

Minimum requirement is 55% marks in the above examinations, Further Mathematics as a subject till Class XII is compulsory.

Category II (NET Qualified candidates):

Candidates who have qualified the National level Junior Research Fellowship examination through CSIR/UGC National Eligibility Test(NET), "BINC", "DBT", "ICMR" are eligible to apply separately in the prescribed form under this category. Candidates shall have to appear for an interview and their selection will be based on their performance in the interview. Candidates who have appeared in the CSIR/UGC NET examination but whose result are awaited may also apply under this category. However, such candidates will be interviewed upon submission of a valid proof of having qualified for or awarded the JRF certificate at the time of interview. Moreover, candidates with the valid period of JRF qualification only would be provided permissible traveling allowances for attending the interview. Please note that candidates who have been awarded only "Lectureship" in the CSIR/UGC examination are not eligible and will not be called for interview.

A minimum of 55% marks in the qualifying degree and Mathematics as a subject till Class XII is compulsory.

(iii) Integrated M.Sc-PhD programme in Computational and Integrative Sciences

A minimum of 55% marks in Bachelor's degree in any branch of Basic and Applied Science or Technology, including medicine and engineering disciplines. Candidates would be selected only through an entrance examination.

9. SCHOOL OF ARTS AND AESTHETICS

The School of Arts and Aesthetics is one of the very few places in India that offer post-graduate degree courses in the theoretical and critical study of film, visual and the performing arts. Moreover, it is the only place in India where these disciplines are offered in one integrated programme that allows students to understand a particular art form in a broader cultural context.

At the SAA the teaching is conducted by eminent scholars who bring to their perspective a multidisciplinary approach drawing on insights from the field of anthropology, history, media and cultural studies. The study of art has in recent years been enriched by methods and insights from many fields: sociology, linguistics, cultural studies, political science, economic history, semiotics and feminist studies, to name a few. The School's outlook has been formulated in response

to new ways of thinking about culture, using a diversity of critical and theoretical approaches. Students are introduced to a range of research methods that combine archival, ethnographic, theoretical and cultural approaches.

The School focuses on taught degree programmes. The faculty encourages students to take advantage of Delhi's cultural riches by watching and discussing exhibitions, theatre, film and music festivals and organizing field trips. The School also hosts interactions with visiting scholars and artists and runs an annual outreach programme that brings the best scholars in a chosen field from all over India to conduct workshops and give talks that are accessible to the interested public.

Resource Centre: The School is building up a library and an archive of photographs, slides, audio and video recordings to help with teaching. There is a growing digital archive of visual art, cinema and of both Indian and International cinema. The use of multi-media teaching is geared to help students maintain a live contact with performance, visual art and film. Students are encouraged to undertake field trips and to learn documentation methods. Students are also encouraged to curate exhibitions in the art gallery of the School and curate mini film festivals on specific themes.

Outreach Programme: Apart from teaching its regular students, the School is also committed to raising the awareness of the public about film, and the visual and performance arts. For this the School will hold events geared to making connections with other interested institutions and organizations in a collaborative spirit.

Academic Foci for the Integrated M.A Degree: The current academic foci of the school include the areas listed below. The list will grow as the School grows in the coming months and years.

Visual Studies: The visual studies courses cover areas of conventional art history and high art practice as well as that of popular culture and the larger visual field. The majority of visual studies courses focus on aspects of Indian visual culture, including shastric and aesthetic theories of Indian art, ancient sculpture, medieval temple architecture, Mughal and Rajput painting, 19th and 20th century popular culture, modern and contemporary art in India and elsewhere in Asia. Theoretically-oriented and cross-cultural courses take up issues such as the relationship between methods, materials and meanings in art, narrative strategies in art, and the history and politics of art institutions, particularly museums.

Theatre and Performance Studies : Current faculty strengths lie in the area of theatre studies, and courses offered focus on the history and sociology of Indian and World theatre. The development of genres in relation to the history of ideas and patronage, and the interdependence of text, context and performance form an area of special interest. At present, courses on the history of Indian music and dance are offered from time to time by visiting faculty.

Cinema Studies: The courses on Cinema Studies are designed to introduce students to the evolving nature of film, both as a social institution and as a powerful art form of the 20th century. The courses engage with critical concerns and discourses around the historical role, function, circulation, reception and formal inventions of the cinema. The courses on Cinema Studies are international in focus with at least one course devoted to the history of Indian Cinema.

(A) PROGRAMMES OF STUDY

1. **Direct Admission to Ph.D. Programme :** Candidates will conduct research towards a Ph.D dissertation in any of the three streams of study offered at the School under the supervision of a guide from within the School's faculty.

2. **M Phil/ PhD :** The School offers an M.Phil. programme in three different streams – Visual Studies, Theatre and Performance Studies and Cinema Studies. Candidates seeking admission to the course are expected to have a broad knowledge of the history, practice and theory of film, visual, and the performing arts.

In the first two semesters of the first year students will be required to successfully complete their course work, including one course on Research methodology in their respective stream. In the second year, students will be required to write and submit their dissertation.

3. **MA in Arts and Aesthetics:** The School currently offers an MA programme with a cross-disciplinary study of the visual, cinematic and performing arts. Students will be required to take 64 course credits within the space of four semesters. Of these, eight courses are compulsory courses that cover core materials in the fields of aesthetics, film, the visual and the performance arts along with related critical theories and methodologies for the study of the arts. Students are encouraged to take a language course, as well as one course in another centre. Apart from core course credits, credits will also come from optional courses that offer a more intense focus on particular areas.

(B) ELIGIBILITY FOR ADMISSION

(i) Direct Admissions to the Ph.D Programmes

Only those candidates shall be considered for Direct admission to the Ph. D. Programme who have —

- a) obtained M.Phil degree of a recognized University/Institution;
OR
- (b) at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard. In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

(ii) M.Phil/Ph.D.

Masters degree in any discipline with at least 50% marks.

(Admission to the M.Phil/Ph.D. is through a separate entrance examination for each of the three streams viz (i) Visual Studies (ii) Theatre and Performance Studies and (iii) Cinema Studies followed by a viva-voce.)

(iii) M.A in Arts & Aesthetics

Bachelor's degree under 10+2+3 pattern of education with at least 50% marks.

Admission to the M.A. is through an Entrance Examination.

10. SCHOOL OF BIOTECHNOLOGY

The School of Biotechnology was one of the first six centres established under the aegis of Department of Biotechnology (DBT), Govt. of India for carrying out Postgraduate teaching and research in areas related to Biotechnology. Initially established as a Special Centre for Biotechnology in 1985, it was upgraded to the level of a School in the year 2006.

Over the years the Biotechnology programme at JNU has established itself as a leading academic programme both from the teaching and research point of view. The faculty of the school is internationally recognized for basic and applied aspects of biotechnology research.

The competitive and vibrant Ph.D. programme in basic and applied biotechnology embarks on creating a strong academic research foundation in the following cutting-edge areas of Biotechnology:

- Molecular Biology and Genetic Engineering
- Transcription control, gene regulation
- Molecular Biology of infectious diseases, Vaccine development
- Protein Engineering, Protein Structure, stability and folding
- Biochemical Engineering, Metabolic Engineering and Bioprocess Technology
- Transcription and Human Biology
- Structural Biology and Bioinformatics
- Cell Signalling
- Cancer Biology
- Immunology and retrovirology
- Plant Molecular Biology and Biotechnology
- Computer Programming
- Chemical and Synthetic Biology
- Molecular basis of human viral diseases
- Metagenomics and Environmental Biotechnology
- Biotherapeutics Production
- Molecular Modeling and Cheminformatics

Strong emphasis is placed on the interdisciplinary nature of Biotechnology; Thus, students coming from both the Physical and Biological Sciences streams are welcome.

The School of Biotechnology is well endowed with State of the art facilities for cutting edge research in Biotechnology. Some of the major equipments/facilities in the school are as follows:

- Central Instrumentation Facility
- Recombinant Product Development Facility of GLP standard
- Spectroscopic Facility
- Microcalorimetric Facility
- Microscopic Facility
- Protein production and purification Facility
- Biosafety Level 3 Facility

Central Instruments Facility

The School has a Central Instruments Facility (CIF) equipped with all the basic and advanced equipments/instruments required for modern day research in biotechnology. The facility is open round the clock for both the students and the faculty.

Recombinant Product Development Facility of GLP standards (RPDF-GLP)

Under the FIST support from the Department of Science and Technology (DST), the School has created a Recombinant Product Development Facility of GLP standard. The facility includes all necessary up stream and downstream equipments, and quality control and testing equipments required for the recombinant product development.

Spectroscopic facility:

The spectroscopic facility includes a number of highly sensitive UV-Visible spectrophotometers, Fluorescence spectrometers, Circular Dichroism spectrometer with stopped flow attachment, FT-IR spectrometer and Nano drop Spectrophotometer etc.

Microcalorimetric facility:

This facility includes Microcal differential scanning calorimetric and isothermal titration calorimetric set up for studying bimolecular stability, folding and interactions.

Microscopic facility:

This includes Simple microscopes, Fluorescent microscopes, Laser Scanning Confocal microscope, Phase contrast microscopes.

Protein Production and Purification Facility:

This facility includes refrigerated incubator shakers, Bacterial and Mammalian cell bioreactors with online FTIR analysis, AKTA-Prime, AKTA-Explorer FPLC protein purification systems, Shimadzu HPLC protein purification system.

Other equipments:

Other specialized analytical facilities that are available in various labs and the Central facility include Real Time PCR, ELISA readers, Elispot Reader and Fluorescence Activated Cell Sorter, Bioreactors, FACS, Elispot, Denaturing Gradient Gel Electrophoresis etc.

In addition to the above, the University has an Advanced Instrumentation Facility. Details about the facility can be looked at: <http://www.jnu.ac.in/AIRF>

(A) PROGRAMMES OF STUDY

(i) Direct Admission to Ph.D. Programme.

(ii) Pre-Ph.D./Ph.D.

Category-I (through entrance examination): The School of Biotechnology Carries out research and teaching (Pre-Ph.D. level) in interdisciplinary areas of Biotechnology as above. The students are given option of areas of research contingent upon vacancy available and inter-se merit of the candidate. Selected candidates are admitted in the first instance, to a two semester programme of course work. Satisfactory completion of the pre-Ph.D. course work (earning a minimum 14 credits) and securing a CGPA of 6.5 (for general category students) and 6 (for SC/ST) is a pre-requisite for subsequent registration to Ph.D. programme.

Category II (NET Qualified candidates): Candidates who have qualified for Junior Research Fellowship through CSIR/UGC National Eligibility Test (NET), DBT-JRF, ICMR-JRF, or any other National Scholarship examination are eligible to apply separately in the prescribed form under this category. Candidates shall have to appear for an interview and their selection will depend on their performance in the interview. Candidates who have appeared in the CSIR/UGC NET examination but their results are awaited may also apply under this category. However, such candidates will be interviewed upon submission of a valid proof of having qualified for or awarded the JRF certificate at the time of interview. Moreover, only candidates with valid proof of JRF qualification would be provided permissible traveling allowance for attending interview. Please note that candidates who have been awarded "Lecturership" in the CSIR/UGC examination are not eligible and will not be interviewed.

(B) ELIGIBILITY FOR ADMISSION

(i) Direct Admission to Ph.D. Programme

Only those candidates shall be considered for Direct admission to the Ph.D. Programme who have –

- obtained M.Phil. and/or M. Tech. degree or equivalent of a recognized University/Institution; OR
- at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard. In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

(ii) Pre-Ph.D./Ph.D.

Master's Degree in Biotechnology, Biochemical Engineering, Biochemistry, Chemistry, Physics, Mathematics or any branch of Physical or Biological or Engineering Sciences or B.Tech.(Biotechnology/Bioengineering/allied qualifications) with at least 55% marks.

For further details about the various programmes, faculty profiles and facilities, etc. visit the School of Biotechnology website: <http://www.jnu.ac.in/SBT>.

Note: JNU will conduct Combined Entrance Examination for M.Sc. programme in Biotechnology for 33 participating Universities for which there is separate Prospectus and Application Form.

11. CENTRE FOR SANSKRIT STUDIES

The Special Centre for Sanskrit Studies was set up in 2000 to undertake research and teaching in Sanskrit studies directed towards relating Indian knowledge systems both to contemporary Indian reality and contemporary western thought. The initial focus is on philosophy, grammar, as reflected in Sanskrit, Pali and Prakrit languages and Language Technology, literary theory, literature, social and scientific thought.

(A) PROGRAMMES OF STUDY

- Direct Admission to Ph.D. programme:** Research and teaching is undertaken in areas of Vedic and Agamic/Tantric literature and thought, Indian philosophical systems, Sanskrit poetics and poetry, Sanskrit grammar and grammatical theory, Pali and Buddhist Studies, Mahayana Buddhism, modes of disputation and interpretation of text, Sanskrit linguistics including computational sanskrit etc. Comparative research is also encouraged.

Those who have a Master's degree have to undertake and successfully complete four pre-Ph.D. courses among those offered in the Centre before they can go on to write their thesis.

- M.Phil/Ph.D.:** Research and teaching is undertaken in same areas as enumerated for Direct Ph.D. programme.

In the two semesters of the first year of the M.Phil Programme, students will be required to successfully complete four courses offered in the Centre including one on research methodology. In the second year students will be required to write dissertation.

- M.A.:** Wide ranging courses are offered by the Centre in Vedas, Literature, Philosophy, Pali and Buddhist Studies, Sanskrit Linguistics including Computational Linguistics and Social and Scientific thought etc.

M.A. programme in Sanskrit Studies requires completion of sixteen courses over four semesters. Specialized courses are offered in the above mentioned areas.

- Certificate of Proficiency in Pali**

The admission to Certificate of Proficiency in Pali will be made on the basis of the performance of the candidate in the written and viva-voce examination which will be held **only at Delhi Centres of Entrance Examination.**

(B) ELIGIBILITY FOR ADMISSION

(i) Direct Admission to Ph.D. Programme

Only those candidates shall be considered for Direct admission to the Ph.D. Programme who have —

- obtained M.Phil degree in Sanskrit/Pali/Allied subject of a recognized University/Institution; OR
- at least 2 years research experience in reputed institutions with research publication(s) comparable to M.Phil. standard. In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

- M.Phil/Ph.D.**

Master's degree in Sanskrit or in an allied subject (with Sanskrit up to B.A. level) with at least 55% marks.

(iii) M.A. in Sanskrit

Bachelor's Degree in Sanskrit or in any other subject under 10+2+3 pattern of education with at least 45% marks.

(iv) Certificate of Proficiency in Pali : Atleast Senior School Certificate (10+2) or an examination recognised as equivalent thereto with a minimum of 45% marks in aggregate.**12. CENTRE FOR MOLECULAR MEDICINE**

Molecular medicine is an emerging area within biomedical sciences that aims to understand the molecular determinants of health and disease with an ultimate goal of applying the knowledge for the prevention, diagnosis and treatment of diseases. The Special Centre for Molecular Medicine (SCMM) at JNU pioneered research and education in this field in India and is the first national centre imparting Ph.D. level training. The centre aims to accomplish its goal through innovative and collaborative basic and clinical research programmes. To fulfill its goal the centre has already initiated many collaborative research activities with reputed national and international medical research institutes.

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. SCMM has started academic programmes for the training of young scientists (clinical and non-clinical) who are keen to pursue careers in basic medical research. The training program has been designed to develop 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 that they would be able to deliver product or processes to the society. For successful implementation of these objectives, SCMM has started the following programs of study.

To encourage medical graduates and students from basic sciences, the centre has introduced Pre-Ph.D. and Direct Ph.D. Programmes in Molecular Medicine and is pursuing teaching & research activities in the following thrust areas:

- A. Metabolic Disorders (diabetes type 2, steroid/nuclear receptors in health and diseases, diseases associated with cell – cell junctions, endocrine related cancers).
- B. Infectious and Non-Infectious Diseases: Hepatitis C, Leishmaniasis, Helicobacter pathogenesis, Candidiasis, Inflammatory Bowel Disease, pathobiology of innate immune dysfunctions., DNA replication and cell cycle regulation of medically important pathogens: *Helicobacter pylori* & *Plasmodium falciparum*. Modulation of cell – cell junctions by pathogens, Mycobacterium Tuberculosis and drug resistance.

- C. Chemical Biology, Radiation Biology & Cell Signalling, Development of Novel Synthetic Methodology for Drug Development and Study of their mechanism of Action based on Genomics & Proteomics against Radiotherapy, Cancer, Development of Antibiotics for Gyrase Resistant Strains targeting Topoisomerase IA Gene in bacteria.

D. Diagnostics and Medical Proteomics

The selected students will have the option to choose their research area depending on their merit/aptitude and according to the vacancy available.

SCMM is also starting an Integrated M.Sc.-Pre-Ph.D Programme in Molecular Medicine in the appropriate disciplines of 'Molecular Medicine'. The goal of this program is to expose and train students in modern areas and techniques of cell and molecular biology in relation to human health and disease and the subsequent application of this training to find innovative targets for the diagnosis and therapy of different diseases. The completion of the human genome project and various other genomes including pathogenic organisms has opened new opportunities for the understanding of the molecular mechanisms of diseases both from the host as well as pathogen's perspectives. Students will be trained to use the tools of modern biology including bioinformatics to understand, retrieve and exploit the wealth of information provided in the genome projects to design modern and personalized medicines.

(A) PROGRAMMES OF STUDY**(i) Direct Admission to Ph.D. Programme in "Molecular Medicine"**

This programme is mainly to encourage fresh medical graduates with interest in basic sciences and willing to pursue research as a career. In this regard, among available seats 50% shall be exclusively offered for medical graduates. However, exceptionally qualified/ experienced researchers from other biological streams may also apply for the programme.

(ii) Pre-Ph.D/Ph.D. Programme in "Molecular Medicine"

Category-I: (Through JNU Entrance Test)

Category-II (NET Qualified candidates)

(iii) Integrated M.Sc.-Ph.D Programme in "Molecular Medicine":

The overall benefit of the integrated M.Sc.-Ph. D. course will be in retaining the trained post-graduate students for Ph. D, who are already experienced in this specific area of molecular medicine related to disease and drugs. This course will reduce the overall time taken for completion of a Ph. D programme because it is expected that majority of them may extend their M. Sc. research project into the Ph. D. programme.

Admission Procedure: Candidates will be selected through a combined JNU entrance examination followed by an interview of short listed candidates. The admission procedure will be as laid down by Academic Committee from time to time and the existing Special Committee of SCMM will oversee the programme.

Duration:

- i. The course work leading to the award of an M.Sc degree in Molecular Medicine shall be for a period of four semesters (two Monsoon Semesters and two Winter Semesters) with a compulsory requirement for submission of a research-based dissertation at the end of the Winter Semester of the 2nd year. A student desirous of continuing to the Ph.D. program in Molecular Medicine will be eligible for enrolment for the Ph.D. programme provided he/she has secured a minimum CGPA of 6.5 in M.Sc. (CGPA 6.0 in case of SC/ST candidates). These students will be offered provisional Ph. D. admission. After successful completion of pre-Ph. D course-work, defending their synopsis (5th semester) and securing 6.5 CGPA in the course work, the students will be confirmed to be included in the Ph. D. programme.
- ii. A Student, who successfully completes the first two years of the M.Sc.-Ph.D. integrated program (M.Sc. phase), would be allowed to leave with a M.Sc. degree if he/she wishes to do so.
- iii. The total duration of the M.Sc-Ph.D course will be 2+4 years (+1 year extension if required).

Credit Requirements: A student will need to have a minimum of 65 credits including 10 credits for the dissertation at the end of two years in order to be eligible for the award of the M.Sc. degree. A student who secures a CGPA of 6.5 at the end of 4 semesters will be eligible to register for the Ph.D. programme without fresh application through entrance test.

(B) ELIGIBILITY FOR ADMISSION**(i) Direct Admission to Ph.D. Programme:**

Only those candidates shall be considered for Direct Admission to the Ph.D. programme, who have either—

- a) Obtained MBBS or BVSc degree (during 2009 or later) from a recognized University/Institution with one year experience or obtained MD /MVSc degree (during 2010 or later; experience is not essential). **OR**
- b) Obtained 2 years M.Phil degree from a recognized University/Institution; **OR**
- c) at least 2 years research experience in reputed institutions with at least one first authored research publication(s) in peer reviewed journals (PubMed; NOT review articles or popular articles or papers in the proceedings). In addition, they should have obtained Master's Degree with 55% marks or equivalent FGPA in 10 point scale/comparable standard where the grading is based on system other than 10 point scale.

(ii) Pre-Ph.D/Ph.D. Programme in "Molecular Medicine"**Category-I: (Through JNU Entrance Test)**

Master's degrees or equivalent from recognized University /Institution in any branch of Biological

Sciences / Chemical Sciences / MBBS/ BVSc/ B.Pharm with at least 55% marks.

Category-II (NET Qualified candidates):

Master's degrees or equivalent from recognized University /Institution in any branch of Biological Sciences / Chemical Sciences / MBBS/ BVSc/ B.Pharm with at least 55% marks; who have qualified for Junior Research Fellowship through CSIR/UGC/ICMR/DBT National Eligibility Test (NET) examination are eligible to apply separately in the prescribed form under this category. Candidates have to appear for an interview and their selection will depend on their performance in the interview. Candidates who have appeared at the CSIR/UGC/CSIR/DBT NET examination but results awaited may also apply under this category. However, such candidates will be eligible for the interview provided they submit the CSIR/UGC/ICMR/DBT JRF qualifying certificate during interview. Moreover, only those candidates with valid proof of JRF qualification would be provided permissible travelling allowances for attending the interview. Please note that candidates who have been awarded "Lectureship" in the CSIR/UGC examination are not eligible and will not be interviewed.

Selected students/candidates will have to take up a two semesters Pre-Ph.D. Course work. A CGPA of 6.5 is mandatory for subsequent registration to the Ph.D. programme.

(iii) Integrated M.Sc.-Ph.D Programme in "Molecular Medicine":

Bachelor's degree in any branch of basic or applied sciences (including MBBS and BVSc.) from recognized Universities and Institutes with at least 55% marks.

13. CENTRE FOR THE STUDY OF LAW AND GOVERNANCE

The manifold agendas of public policy and legal reform in India remain impoverished in the absence of substantial research in many areas that impact the everyday life of Indian citizens. Since its inception, the Centre for the Study of Law and Governance has initiated a new interest in examining how practices of governance get stabilised through law and how these practices open law to further contestation. The Centre 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: the 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 Centre's interdisciplinary focus draws on critical social science approaches in its attempt to explore how practices of law and governance are embedded in political, economic, social and historical processes; how practices of