Universities and shudies in the field of population by B.L. Raina.

UNIVERSITIES AND STUDIE~ IN THE FIELD OF POPULATION

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UNIVERSITIES AND STUDIES IN THE FIELD OF POPULATION

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I consider it a great privilege to be asked to participate in this Symposium and to offer a few observations on "Universities and Studies in the Field of Population". My main aim is to seek your expert assistance to develop model (or models) for strengthening training activities in the fiel of population in universities. I may, therefore, pose a few general questions and attempt partly to answer them with the hope that you will consider them, amend and elaborate them. The questions often raised are:
(i) How are universities concerned with studies on population problem?,
(ii) what is the present situation regarding these studies in universities in India?, (iii) what is being attempted abroad?, (iv) what are the major research problems that need attention?

Role of Universities

My task in answering the first question is simplified as the problem is being discussed in the University of Delhi. This University is a unique pace setter and has a demographic research centre (originally in the Delhi School of Economics) in the Institute of Economic Growth, a reproductive biology unit in the Zoology Department, researchers in the field of population in the School of Social Work and other departments like psychology, sociology, anthropology. The University has a group of devoted social workers led by Shrimati Ganguli who have pioneered family welfare services and provided field practice area. This was initiated about two years ago by Shrimati Durgabai Deshmukh and Shrimati Ganguli. A notable step was taken by Dr. C.D. Deshmukh, the then Vice-Chancellor. on the 5th May, 1965 when he called a meeting of heads of different faculties to discuss intensifying studies in different departments and undertaking studies of problems influencing the people in the area surrounding the University especially "tremendous population problem" which "was immensely important factor influencing the life of mankind in the future". Professor Sher Singh, Minister of State in the Ministry of

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Education, recently focussing attention on planning forums in 3,000 colleges and university departments and two million university and college students increasing at the rate of 10 per cent each year emphasised that "each institution of higher education should have a well coordinated programme of national and social service of its own".* The University Education Commission exhorts us that 'we must give up the fatal obssession of the perfection of the past" and increase efforts "to plumb the meaning of life". Both the University Education Commission 1948-49 and the Education Commission 1964-66 have forcefully brought out the pioneering role of university for social action related to the needs of socio-economic development leading to "a good life in a free society", through adding studies in their curriculum, extra-curricular activities, extra-mural activities like correspondence courses, extension lectures, summer institutes, forums, social service. The Education Commission emphasises that "the country would naturally look to the universities for effective leadership for re-educating the teachers and keeping them informed of the new teaching procedures and methods, new philosophies of education as well as development in the various fields of knowledge with which they are concerned. They can also help in building up healthy attitudes of the community towards some fundamental national problems such as those of public health, sanitation, population control and building up of national solidarity."

Studies in field of Population in Indian Universities

While universities like Delhi have made pioneering efforts, generally the situation is different. I understand a few years ago the National Council of Educational Research and Training in a study found that in eight States the syllabus did not refer to population problem in social studies. Some reference to population problem was found in teachers' training schools and colleges. Teaching of biology in the universities and teachers' training institutions refer to human reproduction but not in sufficient detail. Some teaching in marriage and family life appears in home science but mainly devoted to interpersonal relations and child rearing.

Demography is taught in many universities at undergraduate level. A few lectures on India's population problem are given to graduate students in economics, sociology or statistics. Only at few universities (Aligarh, Banaras, Gorakhpur, Lucknow, Jaipur, Saugar) demography is taught at the post-graduate level. In Poona University, there is a compulsory paper in demography for those taking a master's degree in statistics. The University of Kerala provides a two-year diploma course in demography. Demography is offered as an optional subject to the candidates qualifying for the

^{*} Inaugural address of Professor Sher Singh, Minister of State in the Ministry of Education at the Orientation Seminar for Teachers in Colleges and Universities incharge of Planning Forums at the Central Institute of Research and Training in Public Cooperation, New Delhi.

master's degree in sociology, in biology and in economics in Lucknow and Vikram universities. The University of Lucknow offers certificate and diploma courses in demography. Training facilities in the field of population are provided at specialised institutions like the Indian Statistical Institute, Calcutta; the Demographic Training and Research Centre, Bombay; Demographic Research Centres at Trivandrum, Dharwar, Poona, Patna, Lucknow, Delhi and Madras. Besides All-India Institute of Hygiene and Public Health, Calcutta; Planning Research and Action Institute, Lucknow; Institute of Rural Health and Family Planning, Gandhigram; Central Family Planning Institute, New Delhi are conducting studies in the field of population.*

Training Abroad

Some of the training facilities available abroad are given in appendix They focus attention on the fact that both by practice and tradition training in population studies and demography has been an area of concern in the universities of the world. The tables show that about 110 universities provide some regular training in this field. The need for this training has been met at undergraduate, graduate, and post-graduate levels. Different universities provide training at one or more levels in this field. The aim of this training is broadly two-fold: (a) to provide general orientation and practical understanding and significance of this aspect of knowledge, (b) to train skilled professionals and technicians in the field of population studies and demography. Several universities offer M.A. or Ph.D. in demography, and some provide for specialization in demography at M.A. and Ph.D. levels in sociology, statistics and economics. While this is an area of wide interest to the universities it has been hard to identify it with any one discipline. This is included in such unexpected departments as engineering, geography and philosophy. The multidisciplinary character of the subject is obvious which calls for inter-departmental coordination. Such coordination seems to be emerging by organizing population study centres or by establishment of inter-departmental committee. Population problem being multidisciplinary in character in some universities like the University of California an inter-departmental arrangement has been made. The Report of the United Nations Inter-regional Workshop on Training Programmes in the field of Population held in Elsinore, Denmark in June 1967 amongst its other valuable observations and recommendations states that "special attention should be given to the multidisciplinary nature of training required for family planning programme, training in demography, the behavioural sciences, medicine and public health, education, administration and other disciplines should be provided". The time allotted widely differs from few lecture-hours to fully developed graduate and post-graduate courses in the field. Normally more than a year of time is allotted to fully developed courses. The mode of training is of two types, depending upon the level and objective of the training. When the objective is to provide at undergraduate level some orientation and basic understanding of the field, the usual arrangement is to provide for lectures which are

^{*} The training provided in 30 Indian universities is given in appendix 'A'.

integrated with some broad subject area of undergraduate training. Under such situations facilities also exist for undergraduate students to take these lectures in other departments like sociology, statistics and economics which concentrate on demography and population studies. For more advanced training the students are required to register in schools of sociology or statistics or economics. Here in addition to intensive formal training they are required to undergo heavy research experience, which ends with writing a thesis in this area. For this purpose many universities have specialised population research centres which are open to advanced students from the departments of sociology, statistics and economics. The contents of the training in this area varies with the variation in the objective of training and the department's subject area interest.

Conclusion

Some general conclusions may be drawn viz.:-

- (i) Both basic nature of this knowledge, and its present importance in the country, suggest the urgent need of more and more universities providing for such training in future.
- (ii) Some type of integration of this training at undergraduate and graduate levels is required. Integrated approach and inter-departmental collaboration at this level would ensure some minimum orientation to all the students.
- (iii) At post-graduate level there seems to be a need of dividing the contents into compulsory minimum and optional maximum. Advance courses in the departments of sociology, economics and statistics, biology, anthropology, psychology and social work could be instituted.
- (iv) In order to provide adequate professional training, there seems to be a great need for developing facilities to provide research experience to advanced students. Universities may find it fruitful to collaborate closely with existing demographic research and training centres and multidisciplinary Institutes like the Central Family Planning Institute.
- (v) It may be useful for graduates in one discipline to undertake studies in other related discipline e.g. biology in social sciences and vice versa.
- (vi) The existing curricula could be reviewed with a view to adding studies in population problems and family planning programme in the country.
- (vii) Summer Institutes may include studies in the field of population.
- (viii) Students should be encouraged to select subjects related to population problem for their thesis and dissertations.

- (ix) Correspondence courses, University Extension Lectures, Forums and social service in the field of population could be instituted. Planning Forums should pay special attention to the population problem and family planning programme.
- (x) Research in the field of population could be intensified.

 (Appendix 'C' refers to some of the problems in the field of demography and dynamics of human fertility behaviour).

I have not referred to medical education on purpose. The contribution of medical education and research to family planning is extensive. It has, however, been discussed in other forums and the universities have already done much to encourage these activities.

DEMOGRAPHY COURSES GIVEN IN INDIAN UNIVERSITIES*

| | | graduate level | Post-graduate level | | |
|------------|--------|-----------------------|---|--|--|
| University | Degree | Syllabus | Degree | Syllabus | |
| 1 | 2 | 3 | 4 | 5 | |
| Agra | | | M. Stat. M. Sc. (Stat.) | Optional-demography ^a Optional-vital statistics and population studies ^a | |
| | | "tal Statistics | | | |
| | | | M. A. (Econ.) | Compulsory-population problems ^a | |
| | | | M. Sc. (Stat.) | Optional-demography and population studies ^a Compulsory-economics and vital statistics ^b | |
| | | | M. A(Soc.) | Optional-population problems with special reference to India ^a | |
| | | ementary ^b | M, A. (Econ.) | Elementary ^a | |
| | | | M. A. (Econ.) | Elementaryb | |
| | | | M. Sc. (Stat.) | Compulsory-elementary ^b | |
| | | | M. Sc. (Stat.) M. A. (Econ.) M. A. (Soc.) | Optional-elementaryb Optional-advanceda Compulsory-elementaryb | |
| | | | M. Sc. (Stat.) M. A. (Econ.) | Compulsory-elementary Optional-vital statistics ^a | |
| | | | M. A. (Soc.) M. Sc. (Stat.) | Optional-elementary ^b Optional-vital statistics and demography ^a | |
| | | , | M. A. (Econ.) | Optional-population Studies ^a | |
| | | | M. A. (Soc.) | Optional-social demographya | |
| | • | | M. Com. M. A. (Econ.) | Optional-elementary ^a Optional-demography ^a | |
| ıbalpur | | | M. A. (Econ.) | Optional-demography and vital statistics ^a | |
| adavpur | | | M. Sc. (Stat.) M. A. (Appl. | Optional-elementaryb | |
| | | | Econ.) | Optional-elementaryb | |

[•] Proceedings of the World Population Conference, 1965. III, pp. 282-83.

a Full paper for post-graduate degree examination.

b Part of a paper for post-graduate degree examination.

| 1 | 2 | 3 | 4 | 5 |
|-------------------|---------------------------------|--|---|---|
| Jammu and Kashmi | ir . | • | M. A. (Econ.) | Optional-elementary ^b |
| Karnataka | | • | M. Sc. (Stat.) M. A. (Soc.) | Optional-elementary ^a Compulsory-elementary ^b |
| Kerala | B. A. (Econ.) B. Sc. (Stat.) | Elementary ^b Compulsory Elementary ^b | M. Sc. (Stat.) M. Sc. (Demo.) | Compulsory-elementary ^b |
| Kurukshetra | B. A. (Econ.) | Elementary ^b | M. A. (Econ.) | Compulsory-elementary ^b |
| Lucknow | | | M. Sc. (Stat.) | Economics and vital statistics ^b |
| | | | M. A. (Soc.) | Social demography ^a |
| Madras | B. Sc. | E lementary ^b | M. Sc. (Stat.) | Demography and population studies (not teaching) ^b |
| | | | M.A. (Econ.) | Elementary ^b |
| Mysore | | | M. Sc. (Stat.) | Elementary ^b |
| Panjab | | | M. A. (Soc.) | Optional-social demography ^a |
| Patna | B. A. (Econ.) | Elementaryb | M. A. (Econ.) M. Sc. (Stat.) | Elementary ^b Actual and vital statistics ^b |
| Poona | B. A. /B. Sc. | Elementary ^b | M. Sc. (Stat.) | Optional (not teaching) ^a |
| Rajasthan | | | M. Sc. (Stat.) M. A. (Econ.) M. A. (Soc.) | Compulsory-elementary ^b Optional (not teaching) Optional-elementary ^b |
| Ranchi | | | M. A. (Econ.) | Optional-(not teaching)b |
| S. V. Vidyapeeth | | | M. A. (Econ.) | Optional-advanced ^a |
| Saugar | | | M. A. (Econ.) | Optional-elementary |
| S. N. D. T. women | | | M. A. (Econ.) M. A. (Soc.) | Optional-elementary ^a Compulsory-elementary ^b |
| Vikram | B. Sc. (Stat.) | Elementary | | |

NOTE:- A. Elementary courses cover the study of birth rates, death rates, life-tables, measurements of fertility, gross and net reproduction rates, population growth, population projection, etc.

B. This does not include training facilities in demographic research at the Indian Statistical Institute, Calcutta and some public health and other Institutes. Further information will be welcomed by the Central Family Planning Institute, New Delhi.

Appendix B

TRAINING IN POPULATION STUDIES AND DEMOGRAPHY AT THE UNIVERSITY LEVEL IN SELECTED COUNTRIES*

| Name of the country and the university | Departments/Institutes/ Schools offering the courses | Duration | Degree/ Diploma/ Certificate | A Brief Statement of Contents | Remarks |
|--|--|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| AUSTRALIA | | | | | |
| Australian National | 1. Demography | 3 yrs. | Ph. D. | Formal lectures in demography; seminars on specific topics; methods of analysis; central focus is on thesis | |
| University | 2. Statistics | | | central focus is on thesis | Undergraduates in Statistics are given 12 lectures |
| AUSTRIA | | | | | |
| 1. University of Vienna | History, Geography, Social Genetics and Hygiene | | | | Certain number of lectures on this topic are included in various curriculae |
| 2. University of Innsbruck | -do- | | | | |
| 3. University of Graz | -do- | | | | |
| BELGIUM | | , | | | |
| 1. Free University of Brussels | Institute du Travail | | | | The programme includes demographic studies. |
| 2. Catholic University of Louvain | Demography | | Licence en Sociologie de la Famille et de la Populat | | |

*Source: Directory of Selected Training Facilities in Family Planning and Allied Subjects,
International Planned Parenthood Federation, March 1967. The facilities provided in medical schools in different countries is not included. Generally most of health and medical schools provide training in this field.

Note: Information about India is given in Appendix A.

Further information will be welcomed by the Central Family Planning Institute, New Delhi.

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|--|--------------|-----------------------|---|--|
| BRAZIL | | | | | |
| 1. University of Sao Paulo | Social Science | | | Programme of research and training | Lectures are integrated in the programme of social science faculty, |
| Note: In many oth | er universities lectures in de | emography a | re given in Social | Science faculties. | |
| BURMA | | | | | • |
| 1. University of Rangoon | 1. Institute of Economics | | В. А. | | Demographic training is integrated in B. A. programs |
| | 2. Statistics | 1 yr. | Diploma | Sources & elements of population statistics; population statistics of Burma; Life tables; growth & projections; survey & analysis of population data. | One hour of lectures per week, |
| ANADA | | | | 7 | |
| 1. University of Montreal | Social Science | 2 yrs. | M.A. in Demography | Population theory; Canadian Population; political, economic, geographical & sociological aspects of demography; demographic analysis. | |
| 2. University of of Western Ontario | Sociology & Economics | 2 yrs. | M. A. in Sociology | Primary focus is in the areas of population and urban studies | |
| NOTE: In addition | n, two other universities offe | r courses in | demography | | |
| COLOMBIA | | | un korto | | |
| University of Javeriana | Sociology | | | Lectures on demography & family sociology are included in the curriculum | University of Andes is initiating a programme in this field in the departments of sociology & economics. |
| CZECHOSLOVAKIA | | | | | |
| 1. University of Prague | Economics Geography | | | | |
| 2. University of Bratislava | Economics Geography | | | | |
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| DENMARK | | | | | |
| University of Copenhagen | Sociology | 4 hours a week in the 3rd & 4th semesters. | Degree in sociology | Demographic methods used in analysis and description of given populations. Advanced training by special arrangements | These courses are also open to students of economics, geography and history. |
| FINLAND | | | | | |
| 1. University of Helsinki | Sociology | 1. Two hrs. per week for two terms | | 1. Introduction to Demographic Research; Population movements | For undergraduates |
| | | Two hrs. per week | | Seminar on social policy & population problem | For advanced students |
| 2. University of Tampere | | | | Methods of population research | Social policy students receive 12 hrs. of lectures. |
| 3. Abo Akademi | Sociology/Statistics | 12 hrs. lectures | | Demography and Family Planning | |
| FRANCE | | | | | |
| University of Paris | Institute of Demography | Min. 1 year | 1. General Demography 2. Specialised Demography | Demographic analysis; demographic data; statistics; ecology; policies and theories; political economy; sociology of population; the family & social economics etc. | Training in demography is very extensive in France. There are six full time demography courses which lead to professional qualification in Demography. In addition to universities several institutions teach this subject as a part of their training programme |
| 2. University of Bordeaux | Institute of Demography | | General Demography. Higher Demography. | Demography (general & economic); population policies and theories; economic and human geography population history; history of population theory; ecology; genetics and biometry; statistics; social surveys. | |
| 3. Caen University | Institute of Demography | 1 year | | General demography; world population, distribution variations, migrations; demographic, statistics; numerical and graphical application; fertility and its variations; regional pathology; relation | 2 |

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| | | | | between demographic, economic and social phenomena; population types; population policies and theories. | |
| 4. Lyons University | | | | | Facilities for demographic studies are provided |
| 5. Nancy University | | | | | Facilities for demographic studies are provided |
| GERMAN FEDERAL REPUBLIC | | | | | |
| 1. Goethe University | Education | 7 months | | Population & structure of European Society | This forms a part of socio- logy requirements of the students of educational development. |
| 2. Neue University | Sociology Psychology Jurisprudence | 2 terms | | | |
| University of 3. Hamburg) 4. Munich) 5. Nurenburg) | | | | | |
| Freiburg) Technical) University) of Berlin) Munster) | | | ć | · | These universities give courses in this area from time to time |
| GHANA | | | | | **** |
| 1. University of Ghana | Institute of Statistics Sociology Economics | | | Demographic analysis, keeping records and taking censuses. | |
| University of Science & Te- chnology, Kumas | Architecture | | | Population Statistics | |
| GHATEMA LA | | | | · | |
| University of Ghatemala | | | | | No courses in demography are offered. Only research in demography is carried out. |

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| HUNGARY | | | , | | |
| Karl Marx University | Economics | | | | Introductory course is compulsory Full course in demogra- phy is optional. |
| IRAN | | | | | |
| University of Iran | Institute of Social Research & Studies. | | | | General teaching of demography. |
| ISRAEL | | | | | |
| Hebrew University | 1. Geography | 2 hrs. per week in 1st | Geography of popu | ulation | |
| | 2. Statistics | year 3 hrs. per week in 3rd year | Demographic state measures and mo- trends and their c | dels; population | |
| TALY | | | | | |
| 1. University of Rome | Statistics | 4 years | Demographic analy structure; migrati population projecti | on; vital events and | Students for the degrees of statistical and acturia sciences, and for statistics and demographic Science ar trained in this are some demography is taught |
| 2. Institute Universitaire d'Etudes Europeenes | | | | , | |
| 3. Universita Pontificale Gregorienne | | | Demographic theo sociology of family life. | ries and analysis, y and ethics of family | These subjects are taught to priests. |
| Note: In addition to | the above there are chairs | of demography in five | universities - Bologna, Ron | ne, Palermo, Florence | and Bari. |

University of the West Indies

1. Social Science

1 year

Lectures provide methodological and theoretical orientation.

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| | 2. Arts 3. Statistics | 2 terms | | Emphasis is on methodological topics | The course is open to university graduates, |
| JA PAN | | | | | |
| 1. University of Kansai | Economics & Sociology | | | Population problem; population theory; sociological and economic aspects of population change; population policies and population of Japan. | Has full demography cours |
| 2. University of K | eio | | | | . Has full demography cours |
| 3. University of C | huo | | | | Has full demography cours |
| 4. University of Hitotsubashi | | | | | Has full demography cours |
| 5. University of Meiji | Political Science | 2 hrs. per week for 30 weeks | | Population theory | |
| MA LAYSIA | | | | | |
| University of Malaya | Economics | | | Demographic analysis | Is offered as a part of statistics course to B. A. (Econ.). |
| MEXICO | | | • | | |
| El Colegio de Mexico | | 2 years | Diploma in Demography | Statistics; economic analysis; demography; mortality composition of population; sociology of development; fertility; evaluation of demographic data; population structure and inter-relationships. | It is a post-graduate cours |
| NETHERLANDS | | | ······································ | | |
| University of Amsterdam | Sociology Human Geography Economics Cultural Anthropology | 1 hr. per week for 2 years | | Population techniques; descriptive demography; related problems. | |

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| NEW ZEALAND | | | | | |
| University of Auckland | Geography | | M.A. in Geography | Concepts and content of population geography; technique of demographic analysis; distribution and inter-relationships of population | This forms one of the four courses for M. A. |
| 2. University of Canterbury | Geography | 10-12 lecture hrs. | | | |
| 3. University of Waikato | Geography | 1-1/2 term | | Population distribution and population trends. | |
| 4. University of Sociology Wellington | | | | | Some lectures are given at various stages. |
| NORWAY | | | | | |
| University of Oslo | Social Economics | | | Population Statistics | Some instruction is also given in other faculties. |
| PAKISTAN | | | | | |
| University of Dacca | Statistics · | | M. A. or M. Sc. | Nature and scope of demography; sources of demographic statistics; calculations and use of demographic statistics; population theory censuses and population genetics. | • |
| 2. University of the Punjab | Economics | | M. A. in Economics | | Social Science Research Centre also provides experience in demography. |
| Pakistan Institute of Development. | Economics | | Post-M. A. in Economics | Lectures on demography and demographic analysis. | |
| HILIPPINES | | | | | |
| University of the Philippines | 1. Population Institute | 1 to 2 years | M.A. (in demography) | Demographic statistics; population studies; demography and cultural geography; statistics | |
| | 2. Sociology | | A. B. or M. A. | Demography; human ecology | at undergraduate level |

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| POLAND | | | 5 | | |
| University of Lodz | Statistics & Demography | | | | Some training is provided |
| 2. University of Poznan | Statistics & Demography | | | | Some training is provided |
| 3. University of Cracow | Sociology & Demography | | | | Some training is provided . |
| 4. University of Wroclaw | Sociology & Demography | | | | Some training is provided |
| SOUTH AFRICA | | | | , | * |
| 1. University of Witwatersrand | Sociology | 1 lecture per week for 1/2 year | | Scope, methods and subject matter of demography population problem; population and natural resources; population in South Africa | This is integrated with the first qualifying course in Sociology. |
| 2. University of | | | | | Some lectures are given |
| Pretoria 3. University of Stellenbosch | | | | | Some lectures are given |
| SPAIN | | | | | |
| University of | 1. Statistics | | Diploma in | | |
| Madrid | 2. Politics) 3. Economics) 4. Commerce) 5. Sociology) | | Statistics | Population theory | Ph. D. students in these departments are offered lectures. |
| SUDAN | | | to south the co | | |
| University of Khartoum | Economics | 1 year | B. Sc. Economics | Census; vital statistics; collection & analysis and interpretation of demographic data; life-table; cohort analysis; mortality, nuptiality, fertility; population growth and trends. | One paper |
| | Anthropology | | B. Sc. Anthropology | | One paper |

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| SWEDEN | | | × | | ÷ |
| University of Gothenburg | Demography | | Lower doctoral degree | | Specialisation in demography |
| Note: At all univ | ersities demography is incl | ded in the statis | stics course, and | i is also taught in sociology, economics and | related subjects. |
| SWITZERLAND | | | | N. N. | |
| University of Basle | Economics Social Science | 35 hrs. | | Contemporary empirical populations; history of population and population change. | |
| Note: Most Swise | s universities offer courses | in demography. | | | ię. |
| TAIWAN | | · · · · · · | | | |
| Chieng-Hsing University | Sociology | | | | One course in population problems is offered. |
| THAILAND | 8 | | | | |
| Chulalongkorn University | 1. Sociology | s | M. A. in Sociology | Population Workshop I & II; Population Study; Human Ecology; World Population | 983 |
| | 2. Political Science | | (demography) | Introduction to the study of population | |
| runis <u>ia</u> | | | | | |
| University of Tunisia | | * | | | One course in demography is offered. |
| JGANDA | | | | | * . |
| Makerere University | Sociology | | B. A. (Soc.) | Population growth theory; demographic analysis; migration; fertility and its control; mortality. | One course is offered. |

| University of Moscow | Philosophy | | | | A short course is offere Such short courses are in other universities als |
|----------------------------|---|-----------------------------------|--------------------------|--|--|
| sources of p | one year post-graduate co oppulation data; study of p population; Demographic | opulation numbers | ; structure; dis | w Institute of Statistics. It covers theoretica tribution & migration; Indices of population recopulation theories. | l principles of demograph eproduction; mathematics |
| UNITED ARAB REPUBLIC | | | | | |
| Cairo University | Statistics | 2 hrs. per week for 1 year. | Diploma in Statistics | | |
| UNITED KINGDOM | | | | | |
| 1. University of London | London School of Economics | 1 year | M. Sc. in Demography | Introduction to demography; Mathematics of population growth; Elements of demographic analysis; population trends and politics; collection & analysis of demographic data; errors in demographic data; Design and analysis of demographic investigation. | Three examinations 1. Demography I 2. Demography II 3. Subjects approved by teacher |
| 2. University of Leads | Sociology | | | | Lectures in population studies & demographic analysis form an essenti part of their programme |
| 3. University of Sussex | | | | | |
| 4. Birmingham | | | | | |
| <u>U. S. A.</u> | | | | | |
| University of California | Demography | Time required to get Ph. D. | 2. M. A. in | Courses for M.A.: Population; Population by & Migration; Demographic aspects of huma fertility; Demography of human mortality; y Introduction to Biostatistics; methods and documents in population analysis; Advanced | ah |

Demographic methods; Research Seminar in

Population.

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| 2. | University of Chicago | Sociology Population Research & Training Center | Various | M.A. or Ph.D. in Sociology | In addition to training in research at the centre, many formal courses are offered in the Department of Sociology that are related to population studies. | |
| 3. | Cornell University | Sociology (International population programme) | Various | M. A. /Ph. D. in Sociology. | The aims of the programme are to broaden the traditional training of the professional demographer and to include demographic skills and concepts in the training of pro- fessionals in other disciplines. | |
| 4. | 4. Duke University | 1. Sociology | 3-4 yrs. | M. A. or Ph. D. in Sociology | In sociology course work provides for under standing of general sociology and continues research experience leading to thesis. | te. |
| | | 2. Economics | | | In economics student must specialise in threfields of which one is demography and econdevelopment. In addition we must take a secourses in Sociology Department. | omie |
| 5. | Georgetown University | Sociology (Demographic division) | M.A. | M. A. in Demography | Techniques of demography; major substantive areas of demography. | Opportunity to further research training available |
| 6. | University of Massachusetts | Sociology | | | | |
| 7. | University of Michigan | Sociology Population Studies Center) | , 1 or more yrs. | M. A. or Ph. D. in Sociology | Student is required to elect two courses in population or human ecology. The center programme supplements formal instruction by providing research experience. | |
| 8. | University of North Carolina | Sociology (Population Center) | Various | M. A. or Ph. D. in Sociology | Courses and seminars are offered in population statistics; human ecology & community; other related topics. | Field experience in action programme available. Some of the research projects include. Anthropology - values and motives within a societal grouping, modernisation and population change, birth control as a cultural innovation. Economics - Population change and economic development Psychology Psychological theory of population dynamics, Epidemology-studies on the antecedents and consequences of abortion and use of contraceptive methods. Political Science- |

Demographic effects of politicas systems. Biology physchological behavioural, genetics mechanism-regulating size of natural animal

property.

9. University of 1. Population Studies Various 1. Ph. D. & Courses for Ph. D. in demography; Intro-Pennsylvania M. A. in duction to demography; Mortality and Fer-Center demography tility; Population distribution; migration and urbanization; Demographic research; Demographic aspects of manpower; Demographic, economic and social inter-relations: social and economic theories of population: demographic history; community & ecology; population politics.

2. Sociology

Economics

2. Ph. D.

3. Economics

3. Ph. D.

10. University of Pittsburgh

1

M.A.

Demographic measurements; economic determinants and consequences of population change in both developed & developing nations; applied problems.

11. Princeton University

02

Office of Population Research 1 or more School of Public & Interyears

11 months

Survey of world population problems: Techniques of demographic analysis and research.

Some population courses are given in the department of sociology, anthropology; mathematics, and economics

at Ph. D. level.

12. University of Southern California

Sociology & Anthropology (Population Research

Various M.A. or Ph. D. in Anthropology

Courses in Population and human ecology offered.

Laboratory)

national Affairs)

13. University of Texas

Sociology

Various

M.A. or Ph. D.

Note: The teaching of population studies and demography is very extensive in American universities, and is firmly entrenched in departments of sociology. About 16 universities offer extensive graduate work in population studies. Most of these courses consist of practical research work as well as course and thesis work.

YUGOSLAVIA

University of Skopje

Economics

Two hrs. a week for one semester

Note: Courses in demography are offered in the Departments of Sociology, Economics and Geography at the Universities of Belgrade, Ljubljana and Zagreb and these are given at the undergraduate level.

Some Research Problems

The following list is limited to some areas related to demography and dynamics of human fertility behaviour only. The list indicates some areas in order that different Departments in universities can suggest further subjects needing urgent attention and also research in other fields like biology, mass communication organisation etc. This is merely to initiate compilation of important research problems which universities and research institutions can undertake.

DEMOGRAPHIC RESEARCH

Demographic studies should include:

- i) Identification of high and low fertility areas, communities and groups for the study of factors responsible for fertility differentials. The comparability of such studies undertaken by the different centres would be enhanced greatly if a minimal uniformity was adopted in respect of concepts, design, tabulation and analysis of data.
- ii) Detailed family planning knowledge, attitude and practice surveys with fertility component should be carried out periodically in a number of districts to find out both the direct and indirect results of the programme.
- iii) Intensive depth studies should be undertaken to ascertain differential receptivity to family planning programmes as between different areas, communities and groups. For the purpose, differentiation as between communities and groups may be based on their economic, social and psychological characteristics. Twenty to thirty fellowships might be offered. The persons should be carefully selected and given training before assigning them to carry out the studies. The amount of fellowship should be attractive enough to get the candidates of requisite quality.
 - iv) Resurveys of villages and areas in which demographic surveys were carried out sometime ago should be done to measure demographic changes.
 - v) The demographic studies might also be undertaken in areas which have witnessed high rate of economic development. The geographical scope of such studies must be wide enough to permit assessment of the impact of new industrial centre on the regional economy. Such studies might be undertaken both in new and

- expanding urban areas as well as in rural areas where intensive efforts of rural development are being undertaken.
- vi) Problems and methods of measurement of fertility variables.
- vii) Studies of economic, social and demographic factors associated with migration phenomena should be undertaken. Such studies might cover both the places of out-migration and in-migration.
- viii) Mortality conditions should first be studied on the basis of available data from hospitals, dispensaries, health centres, etc. with particular reference to cause of death analysis. Based on such studies, certain hypothesis may be formulated which should be tested in well designed studies. Mortality studies should be related to intensive health programmes with a view to assessing the trends which might help in projecting the course of mortality decline for different regions and the country as a whole.
 - ix) Morbidity surveys should be undertaken with the help of medical and health agencies with a view to ascertaining the incidence of morbidity according to economic status, occupations and social background.
 - x) Studies to improve vital registration.
 - xi) Demographic studies of tribal areas are also needed to be undertaken.

STUDIES ON DYNAMICS OF HUMAN FERTILITY BEHAVIOUR

Objectives

- i) Study of background factors influencing family size.
- ii) Study of specific social and cultural factors important for family planning programme in India.
- iii) Study of specific educational techniques to influence fertility behaviour of the people.
 - iv) Development of broad action programmes making full use of educators' skills plus findings from type (1), (11), and (111) studies under condition of maximum flexibility.
 - v) KAP studies on issues relating to family planning.
- vi) Experimental testing of "package" approaches over a period of time.

The studies suggested to be taken up are as follows:

- i) Identifying and studying norms related to fertility behaviour. This will include studies of norms relating to sex, family life pattern, family size, marriage, composition of children in the family and parenthood behaviour etc.
- ii) Study of process and mechanism to modify above existing norms, levels of aspirations and living standards of various groups.
- iii) Study of specific social factors directly related to fertility, age at marriage, widow marriage, education, mobility, status of women, employment of women, etc.
- iv) Studies on the identification of sociological and psychological factors in the acceptance and practice of family planning methods.
- v) Studies of communication and decision making processes in the acceptance of family planning.
- vi) Factors involved in the selection of specific contraceptives at different stages of family building and their effectiveness. Psychological basis of shifting from one family planning method to the other; psychological reaction to the failure of the contraceptive, etc.
- vii) Use effectiveness studies of various contraceptives factors related to it.
- viii) Studies on the knowledge and attitudes towards sterilization and its trend.
 - ix) Studies on the knowledge and attitudes towards abortion and its trend.
 - x) KAP studies on family planning programme in general and various methods in particular.
 - xi) Research on Census and Registration Methods. A vast amount of data collection is going on in India involving a large expenditure of financial and human resources. An investment in improving data collection methods would pay rapid dividends. An active method research programme is required.
- xii) Studies of district or regional variation in growth rates and characteristics. For this, regional approach to population studies may be adopted.
- xiii) Evaluation of long-term and short-term changes in fertility.

- xiv) Studies of barriers, failures, resistance and rumours related to family planning programme.
- xv) Studies on the understanding of the mechanism of fertility generation. It should be able to show the contribution of biological, social and cultural, economic and psychological factors in determining the level of fertility. Some specific aspects and problems which need study with regard to general, biological, social, cultural, and economic correlates of fertility are:
 - a) Demographic aspects such as spacing between births, pattern of age-specific fertility rates, etc.
 - b) Differences in fecundity levels between couples; relationship between fecundity and use of contraception; primary sterility; secondary sterility and the relationship if any, with age at cohabitation, age at first birth and rate of reproduction; length of lactation amenorrhea and the length of fecundable periods between births.
 - c) Effect of social factors such as age at marriage, widow remarriage, etc. on fertility; effect of socio-economic factors such as education, working status of woman, social status of woman, etc. on fertility.