



INSTITUTE OF GERONTOLOGY AND GERIATRICS L. N. MITHILA UNIVERSITY

Kameshwaranagar, Darbhanga 846008

PROSPECTUS & Admission Proforma

6-MONTHS
ADD ON CERTIFICATE
COURSE IN
GERONTECHNOLOGY



LALIT NARAYAN MITHILA UNIVERSITY

KAMESHWARANAGAR, DARBHANGA - 846 004 (BIHAR)

Professor S. K. Singh

Vice-Chancellor



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Ref. No.

Date

Message



It gives me immense pleasure to let you know about endeavours of LNMU over the years keeping in mind the societal obligation to ensure life of dignity to 'Masters of the Past'. I personally feel that Universities have a big role in safeguarding the interests of senior citizens. Elders in the family need to be respected and taken a very good care of. I am happy to inform that Lalit Narayan Mithila University has prioritized Optimized Elderly Care and is committed to raise their quality of life. Youth sensitization towards Care of the Aged is the primary task.

Besides promotion of ageing studies and research, IGG carries the onus of running programmes of Elderly Welfare.

I wish IGG a very bright future.

(S. K. Singh)
Vice-Chancellor

About IGG

Institute of Gerontology and Geriatrics established as an independent Unit of L.N.Mithila University, Darbhanga at par with other University Departments in 2015 with the sole objective to promote Ageing Studies and Research and cater to the needs of marginalised elderly segment of the society under University Outreach Programme is committed to bring LNMU on the Ageing map of India. It is in IGG priority to implement academic courses and welfare programmes for senior citizens in phased manner under Self Finance Scheme. Some of the courses and programmes offered / proposed are listed below:-

1. 6-Months Add on Certificate Course in Gerontechnology
2. One year P.G. Diploma Add on Course in Geriatric Care
3. One Year IGNOU-Sponsored P.G. Diploma in Geriatric Medicine
4. Two Year M.Sc. Course in Gerontology with CBCS
5. Ph.D. programme in interdisciplinary areas of Gerontology and Geriatrics
6. Geriatric Consultancy
7. Day Care Centre
8. ARDSI Darbhanga Chapter

About the Course

In view of enormous societal relevance of Gerontechnology, an interdisciplinary subject linking available and developing technologies to the expectations and needs of ageing population, introduction of 6-Months Certificate Course in Gerontechnology is demand-driven. It is expected to impart knowledge about application of technology for the benefit of older persons and propagate the need of adoption of healthy food habit, high physical activity level and active social participation for enhancing longevity with quality life and minimizing dependency on children and care providers. Besides, implementation of such an elderly-focused academic course is in consonance with the policy of L.N. Mithila University, Darbhanga to undertake academic programmes for the welfare of the underrecognized and underprivileged elderly community of the region and the resolution of MHRD, GoI, New Delhi to take up new courses addressing elderly issues as contained in the letter of the Joint Secretary (HE) addressed to the Chairman, University Grants Commission, New Delhi vide D.O. F.No. 13-17/2013-PN.1 Dated the 16th July 2014. The Course shall be conducted under the aegis of the Institute of Gerontology and Geriatrics, L.N. Mithila University, Darbhanga as an 'Add on' Course under self-finance scheme.

The short term certificate course of 6-Months duration is primarily conceptualized to sensitize young and middle-aged generation towards their responsibilities for elders in the family as well as senior citizens of the society. Further beside, the course intends to make the learners aware of the fundamentals of Ageing Science as well as technological advances evolved to make elderly living more comfortable and less distressful.

Eligibility

Candidates holding U.G.(Honours/General) degree in any subject in regular/Distance mode from a recognized University with minimum 45% marks in aggregate

Intake

Intake capacity will be 40(Forty), 25% enrolment mandatory for running the course.

Medium of Instruction

Medium of instruction will be English and/or Hindi.

Vacations and Holidays

As per University Calendar

Method of Selection

Selection of eligible candidates for admission shall be made on the basis of marks obtained at the Qualifying Examination and Interview conducted to test aptitude for the course.

Reservation

Existing Government policies relating to admission criteria for SC/ST/OBC and other categories as adopted by the University shall be followed. Candidates seeking admission on seats for reserve category will have to produce Caste Certificate issued by the competent authority.

In the event of seats lying vacant in reserved category, admission to candidates of General Category from the Merit List may be considered as per provisions.

Teaching

Besides regular faculty of allied subjects deputed by the University at IGG, faculty from allied Departments/Senior Citizens/Care Providers may be invited as Resource Persons/Guest Faculty/Adjunct faculty as and when required and be associated with practical/dissertation keeping in view the multidisciplinary nature of the Course.

Fee Structure

A total fee of Rs. 6000/- inclusive of all charges as below will be charged at the time of admission:-

Admission Fee	Rs. 500/-
Tuition Fee	Rs. 1800/-
Development Fee	Rs. 2000/-
Library Fee	Rs. 200/-
Identity Card & Syllabus	Rs. 200/-
Examination Fee	Rs. 700/-
Common Room Fee	Rs. 100/-
Stationary & Software	Rs. 500/-
Grand Total	Rs. 6000/-

Academic session

Not with standing unavoidable circumstances, two batches shall commence in each academic year as follows:-

- (i) July to December
- (ii) January to June

Attendance

A minimum of 75 % attendance shall be mandatory.

Examination and Result Publication

On successful completion of the course, the University Examination shall be conducted. Examination of practical paper shall be conducted by two examiners (One external and one internal).

Pass marks in Theory and Practical papers shall be 40 out of 100. A student shall be required to secure pass marks in each paper separately for qualifying for the award of the Certificate. The criteria for result publication shall be as follows:-

Marks in aggregate 40% and less than 45%	Pass
Marks in aggregate 45% and less than 60%	Second Division
Marks in aggregate 60% and above	First Division

Question Pattern and Division of Marks

There shall be two Theory papers each carrying 100 Full Marks and of 2½ Hours duration and one Practical paper carrying 100 marks and of 3 Hours duration.

Theory papers shall comprise of five units. The questions in theory papers shall be of the following pattern:-

Section I

One compulsory Multiple Choice Type carrying 10 questions from all units 10x2=20 Marks

Section II

Four Short Answer Type questions to be answered each in about 150 words
out of five to be set one from each unit 4x5=20 Marks

Section III

Three Long Answer Type questions to be answered each in about 500 words
out of a total of five to be set one from each unit 3x20=60 Marks

In Practical paper based on both the theory papers division of Marks shall be as follows:

Comment on Charts/Models/Geriatric Appliances/Gerontechnological Apps (one from each to be provided)	4x15=60 marks
Charts/Models Presentation by the candidate	20 Marks
Viva-Voce	20 Marks

SYLLABUS

6-Months Certificate Course in Gerontechnology

Paper I (Theory Paper)

Duration of Examination: 2½ Hours

Full Marks: 100

Basic Gerontechnology

UNIT I

- 1.1 Gerontology, Geriatrics and Gerontechnology- Concept and scope
- 1.2 Stages of Life Cycle
- 1.3 Chronological, Biological and Psychological Age

UNIT II

- 2.1 Ageing and Senescence
- 2.2 Rising Life Expectancy and Age Quake
- 2.3 Human Body Organization- Salient features

UNIT III

- 3.1 Changing metabolic needs and Nutritional requirements in Old Age
- 3.2 Healthy Life Style
- 3.3 Anti-Ageing Agents

UNIT IV

- 4.1 Elderly Living Arrangements
- 4.2 Initiatives for care of the Elderly
- 4.3 Maintenance of Parents and Senior Citizens Act 2007

UNIT V

- 5.1 Common Old Age Symptoms
- 5.2 Common Age-associated Diseases
- 5.3 Depression in Late Age

Suggested Readings:

1. Aging, K Subba Rao, National Book Trust, India, 1999
2. Adult Development and Aging (2nd Ed.) Diare E. Papalia, Harvey I. Sterns, Ruth Duskin, Fellman, Cameron J. Camp, McGraw Hill, WI NY, 2002
3. Look Younger at any Age, Dr. Don Groot and Patricia Johnston, Magna Graphics (India) Ltd. 1998
4. Genes and Aging, M. S. Kanungo, Cambridge University Press, England, 1994
6. Biochemistry of Aging, M. S. Kanungo, Academic Press, London, 1980
7. Hand Book of Physiology in Aging, Edward J. Masoro, Crc Press, Inc Boca Raton, Florida, 2000
8. Encyclopedia of Gerontology Age, Aging and the Aged, Vol. I & II, James E. Birren (ed.) Academic Press, NY, 1996
9. Biological Aging Methods and protocol, Ed. : Trygre O. Tollecsbol, Human Press, 2007
10. Hormones, Brain and Behaviour, Vol. I – V, Donald W. Pfaff, Arthur P. Arnold, Anne M. Ctgen, susan E. Fahrloch and Robert T. Rubin, Humana Press, 2002

Paper II (Theory Paper)

Duration of Examination: 2½ Hours

Full Marks: 100

Applied Gerontechnology

UNIT I

- 1.1 Recent Geriatric Approaches to elderly ailments
- 1.2 Usefulness of Alternative Medicine in late age
- 1.3 Physiotherapy -Role in Elderly well being

UNIT II

- 2.1 Designer Food and Designer Medicine - Elementary Concept
- 2.2 Designer Houses for Elderly-Concept and Utility
- 2.3 Human Genome Project and Gene Therapy

UNIT III

- 3.1 Sphygmomanometer-Principle and Application
- 3.2 Working Principle of Compound Laboratory Appliances
- 3.3 ECG-Principle and Application

UNIT IV

- 4.1 Common Geriatric Appliances
- 4.2 Elderly-friendly Electronic Gadgets
- 4.3 Mobile Apps designed for Senior Citizens

UNIT V

- 5.1 Care of Dementia Patients
- 5.2 Care of old people in terminal age group
- 5.3 Benefits of internet learning among computer friendly senior citizens

Suggested Readings:

1. Harrington,T.L. and Harrington,M.K. (2000) Gerontechnology Why and How, Shaker Publishing D.V.,Netherlands,ISBN:90-423-0107-4
5. Gerontology for the Health Care Professional, Walter C. Chip, Regula H. Robrett, F. A. Davis Company, Philadelphia, 1999
6. Aging and Health in India, C. Shanti Johnson and Irudaya Rajan, Rawat Publication, 2001
7. Geriatric Care in India – Geriatrics and Gerontology, A Text Book, O.P. Sharma (Editor), A'n' B Publishers Pvt. Ltd. New Delhi – 51,199918.
8. The Problem of the Old Age, R. C. Sricastava, Classical Publishing Company, New Delhi – 110015
9. Studies in Gerontology – Intergenerational Perspective, K. L. Sharma (Editor)
10. Aged in India: The Struggle to Survive, Vol. I & II, J. P. Yadav (Editor – in – Chief), Institute for Sustainable Development, Lucknow, Anmol Publications Pvt. Ltd., New Delhi 11000
11. Cardiovascular Disease in the Elderly Patient, Donald D. Tresch, Wilbert S. Arnow (Eds.), Marcel Dekker, Inc., 1994
12. Recent Advances in Geriatrics, Mario Barbagallo Ginseppe Licata and James R. Sowers (Eds.), Plenum Press, NY, 1998

13. Geriatric Medicine for Old Age psychiatrists, Alistair Burns, Michel Horan, John E. Clague and Gillian Mc Lean, Taylor and Francis Group, London and NY, 2006
14. Hand Book of the Psychology of Aging. 3rd Ed. James E. Birren, K. Warner Schaie (Eds.), Academic Press, NY

Paper III (Practical Paper)

Duration of Examination: 3 Hours

Full Marks: 100

This Paper based on both the theory papers shall have division of Marks as follows:

Comment on Charts/Models/Geriatric Appliances/ Gerontechnological

Apps(one from each to be provided)

4x15=60 marks

Charts/Models Presentation by the candidate

20 Marks

Viva-Voce Examination

20 Marks

Programmes & Priorities

- ★ *Lalit Narayan Mithila University aspires to be the India's most energetic, responsive University, offering unparalleled educational opportunities for learner community especially to the lower socioeconomic Status of the society seeking the highest quality Under Graduate, Post Graduate and Research degree & continuing personal or professional enrichment in higher education.*
- ★ *Selected professionals are assigned the responsibility to lead to formation of scholarly community serving the nation by advancing, sharing and applying knowledge and by facilitating creative, adaptable and contributing human citizens.*
- ★ *Quality teaching and Promotion of research work of societal relevance is our motto. We are equally concerned for all round personality development of our students.*
- ★ *Generation of valuable "Human Resource" with potential for employment/self-employment in the present day Knowledge Society is in our priority.*
- ★ *We do believe in "Go Green Concept" & consider green and clean environment indispensable for academic advancement of the Community.*
- ★ *We believe in the concept of "Waste is Wealth" and prioritize optimum utilization of resources in the larger interest of the Organization.*

We relive your Past to plan for Future.





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6-MONTHS ADD ON CERTIFICATE COURSE IN GERONTECHNOLOGY

Session : July /January 20.....

1. Name : _____
2. Gender : _____
3. Nationality : _____
4. Religion : _____
5. Date of Birth : _____
6. Blood Group : _____
7. Present Age : _____ Years _____ months
8. Father's/Guardian's Name : _____
9. Permanent Address : _____

10. Contact No. , if any : _____
11. E-mail ID, if any : _____
12. Category (Tick out which one is applicable) : GENERAL/SC/ST/OBC/OTHERS
13. Details of Examinations passed (10th onward) :

Sl. No.	Examination	Board/University	Year of Passing	Div./Class	% Marks in aggregate

14. Research Degree. If any :
15. Details of Course presently undertaken, if any :

I, Mr. /Ms _____ hereby declare that I shall maintain honesty, punctuality and discipline throughout the course. I also undertake that the information above is true to the best of my knowledge.

Enclosures :

1. Attested copies of Marks sheets
2. Caste Certificate (for reservation category only)

Signature with Date