CURRICULAM-VITAE

Title	**Dr.**	First Name	**Laxmi Narain**	Last Name		Photograph

Designation	**Associate Professor**
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Web-Page	

Educational Qualifications

Degree	Institution	Year
Ph. D. (Mathematics)	University of Delhi (Special Models in Flow-shop Sequencing problems)	2006
M. Sc. (Mathematics)	University of Delhi	1994
B. Sc. (Maths, Computer Sc. Chemistry)	Moti lal Nehru College, University of Delhi	1992
NET	UGC-CSIR	1994

Career Profile

More than 19 years teaching experience of
- B. Sc.
- B.Tech,
- M. Sc. and
- M.Tech students.

Administrative Assignments

- Served as Convener, Sports Committee from 2016 to 2018
- Organise the "Inter College Para-sports Tournament" and it was the first Para-sports tournament in University of Delhi.
- Served as Convener, Workload and Timetable Committee from 2013 to 2016.
- Served as Teacher Incharge, Department of Mathematics, Acharya Narendra Dev College from 2012 to 2014.
- Served as Teacher Incharge, Department of Physical Sciences, Acharya Narendra Dev College from 2018 to till date.
- Served as Co-convener, Examination Committee from 2018 to till date.

Areas of Interest / Specialization

- Scheduling Problems
- Optimization Technique

Subjects Taught
- Calculus   - Differential Equation   - Real Analysis   - Geometry   - Numerical Methods

Time table of the subjects taught during the current semester

Research Guidance

Publications Profile

The thesis entitled *Special Models in Flowshop Sequencing Problems* is devoted to the study of sequencing problems, commonly known in literature as 'Flowshop Sequencing Problems'. The aim is to determine the optimal sequence, where the optimization criteria are:

➢ Minimization of the total rental cost,
➢ Minimization of the total elapsed time,
➢ Minimization of the total flow-time,
➢ Minimization of one criterion subject to minimization of the other criterion, i.e., minimization of bi-criteria.

S. No.	Title of Paper	Name of Journal	Journal ISSN No.	Sole/Co-Author
01	Minimizing Rental Cost in 3-Machine Specially Structured Flow-shop Problems	Int. J. Engg. Res. & Sci. & Tech. (IJERST)	ISSN 2319-5991	Sole
02	Bi-Criteria in Two-Machine Scheduling Under Rental Situation	International Journal of Computer & Mathematical Sciences (IJCMS)	ISSN 2347-8527	Sole
03	Optimize Renting Times of Machines in Flow-Shop Scheduling	International Journal of Engineering and Applied Sciences (IJEAS)	ISSN: 2394-3661	Sole
04	Minimize Rental Cost in Two-Machine Specially Structured Flow-shop Problems	International Journal of Engineering Technology, Management and	ISSN 2349-4476	Sole

		Applied Sciences (IJETMAS)		
05	Three-Machine Flow-Shop Problem with Availability Constraint on Each Machine	International Journal of IT, Engineering and Applied Sciences Research (IJIEASR)	ISSN: 2319-4413	Sole
06	Minimizing Rental Cost in Three-Machine Flow-shop Problems	International Journal of Innovative Research in Computer Science & Technology (IJIRCST)	ISSN: 2347-5552	Sole
07	Minimizing Rental Cost in 2-Machine Flow-shop Sequencing Problem	International Journal of Management and Social Sciences Research (IJMSSR)	ISSN: 2319-4421	Sole
08	Bi-criteria in Flow-shop Problems under Rental Situation	International Journal of Scientific and Innovative Mathematical Research (IJSIMR)	ISSN 2347-3142	Sole
09	Minimizing Total Rental Cost in Scheduling Problems	Journal of Computer and Mathematical Sciences (JCMS)	ISSN 2319-8133	Sole
10	Bi-criteria in $n \times m$ Flow-shop Problems	IAPQR Transactions	ISSN 0970-0102	First
11	Flow-shop / No-idle Scheduling to Minimize Total Elapsed Time	Journal of Global Optimization	ISSN 0925-5001	First
12	Flow-shop / No-idle Scheduling to Minimize Mean Flow-time	ANZIAM(Journal of Australian Mathematical Society)	ISSN 1446-8735	First

13	Minimize Total Elapsed Time Subject to Zero Idle of Machines in N x 3 Flow- shop problems Mean Flow-time	Indian Journal of Pure & Applied M	ISSN 0019-5588	First
14	Two- machine Flow-shop Problems with Availability Constraint on Each Machine	Journal of Indian Society of Statistics and Operations Research (JISSOR)	ISSN 0250-9636	First
15	Minimize Total Elapsed Time Subject to Minimum Total Hiring Cost of Machines in N X 3 Flow- shop problems	Journal of Indian Society of Statistics and Operations Research (JISSOR)	ISSN 0250-9636	Sole

Publications in the Last one year

Books (Published)

S. No.	Title of Paper	Name of Journal	Journal ISSN No.	Sole/Co-Author
01	Special Models in Flow-shop Scheduling	Omega Publications, Delhi	**2015**	Sole
02	Sequencing Problems in Rental Situations	Research India Publications, Delhi	**2015**	Sole
03	Modeling of Calculus Problems using Mathematica	Research India Publications, Delhi	**2017**	Sole
04	Mathematica Programming with Numerical Methods	Research India Publications, Delhi	**2017**	Sole
05	Practical Analysis using Mathematica	Research India Publications, Delhi	**2017**	Sole
06	Differential Equations	Research	**2017**	Sole

	Modeling using Mathematica	India Publications, Delhi		

Books (To be Published)

S. No.	Title of Paper	Name of Journal	Journal ISSN No.	Sole/Co-Author
01	Modeling of Calculus Problems using Maxima software	Omega Publications, Delhi	**2019**	Sole
02	Differential Equations Modeling using Maxima Software	Research India Publications, Delhi	**2019**	Sole
03	Practical Analysis using Maxima Software	Research India Publications, Delhi	**2019**	Sole

Conference Organization/ Presentations (in the last three years)

Workshops

- Convened workshop for teachers on Applications of free and open source MAXIMA Software in Numerical Methods at Acharya Narendra Dev College in August 2012.
- Convened workshop on Application of Mathematica Software in Partial Differential Equations at Acharya Narendra Dev College on March 1, 2013.

Invited Lectures / Paper Presentation in Conferences & Seminars

- Delivered lecture on "Minimizing Rental Cost using Branch-and-Bound Technique " and chaired a session in International Conference on Innovative Trends in Mathematics, Computer and Information Sciences held on March 9-10, 2017 at Mahrishi Markandeshwar University, Ambala (India)**.**
- Presented the paper titled "Mathematical Models in Flowshop Sequencing Problems" and chaired a session in National Seminar on Modelling and its Application in Science and Technology IIMT Engineering college, Meerut, India held on December 13-14, 2004.
- Presented the paper titled "Minimizing Hiring Cost of Machines in N x 3 Flowshop problems**"** in XXXI Annual ORSI Convention and International Conference on Operations Research and Industry held on Dec. 19-21, 1998 at Dr. B.R. Ambedkar Univesity, Agra (India)**.**

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions	

Awarded a Research Fellowship by Council of Scientific and Industrial Research from 1995 to 1997 for pursuing Ph.D. from University of Delhi, Delhi.

Association With Professional Bodies

- ➢ Member, Board of Studies, Department of Mathematics and Humanities, Mahirshi Markandeshwar University, Mullana (Ambala).
- ➢ Member, Board of Studies, Department of Mathematics, SRM University, NCR, Sonepat.

Other Activities

(Dr. Laxmi Narain)