Annual Report

Ph.D. Supervision
(To be maintained by those guiding Ph.D.)

Department: Mathematics

Academic Year: 2021-22

Name of the Teacher: Prof. (Dr.) Sunila Sharma

Designation: Professor
Qualifications (Ph.D./D.Sc./D.Litt.):   Ph.D
Year of obtaining the above qualification: 1999
Year of recognition as research guide: 2011
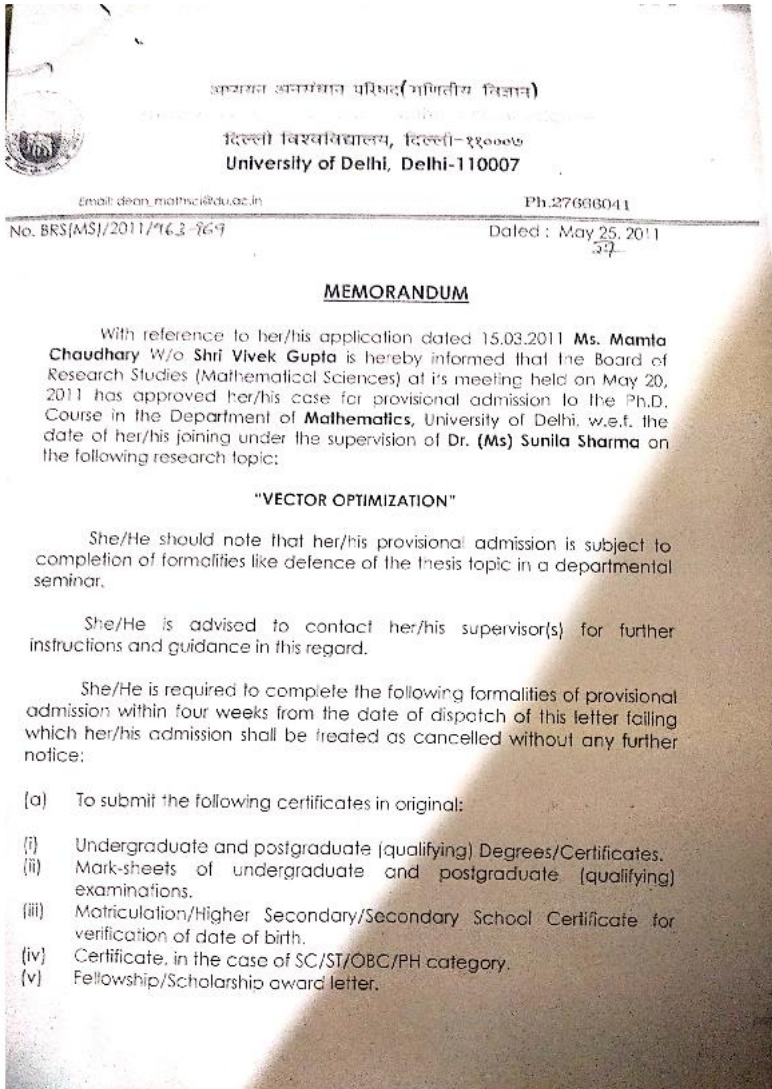Relevant page of the Recognition Letter as supporting document (if any):

Part B

Research Scholars who have completed Ph.D.

Name of the student:	**Mamta Chaudhary**
Year of registration:	**2011**
Year of obtaining Ph.D.:	**2018**
Supervisor:	**Prof. Sunila Sharma**
Co-supervisor, if any:	**NA**
Title of the thesis:	**Variational-Like Inequalities in Terms of Bifunctions, Optimality and Duality in Vector Optimization Over Cones**

Relevant supporting document (issued by the BRS):

अध्ययन अनुसंधान परिषद(गणितीय विज्ञान)

दिल्ली विश्वविद्यालय, दिल्ली-११०००७
University of Delhi, Delhi-110007

Email: dean_mathsci@du.ac.in   Ph.27666041

No. BRS(MS)/2011/963-969   Dated : May 25, 2011

MEMORANDUM

With reference to her/his application dated 15.03.2011 **Ms. Mamta Chaudhary** W/o **Shri Vivek Gupta** is hereby informed that the Board of Research Studies (Mathematical Sciences) at it's meeting held on May 20, 2011 has approved her/his case for provisional admission to the Ph.D. Course in the Department of **Mathematics**, University of Delhi, w.e.f. the date of her/his joining under the supervision of Dr. **(Ms) Sunila Sharma** on the following research topic:

"VECTOR OPTIMIZATION"

She/He should note that her/his provisional admission is subject to completion of formalities like defence of the thesis topic in a departmental seminar.

She/He is advised to contact her/his supervisor(s) for further instructions and guidance in this regard.

She/He is required to complete the following formalities of provisional admission within four weeks from the date of dispatch of this letter failing which her/his admission shall be treated as cancelled without any further notice:

(a)   To submit the following certificates in original:

(i)   Undergraduate and postgraduate (qualifying) Degrees/Certificates.
(ii)   Mark-sheets of undergraduate and postgraduate (qualifying) examinations.
(iii) Matriculation/Higher Secondary/Secondary School Certificate for verification of date of birth.
(iv)   Certificate, in the case of SC/ST/OBC/PH category.
(v)   Fellowship/Scholarship award letter.

Relevant supporting document for award of Ph.D. (Certificate/Degree/Result issued to student on successfully completing Ph.D.):

Miranda House
UNIVERSITY OF DELHI

UNIVERSITY OF DELHI
DELHI-110007

Ref.No.Exam. Br.-IV/Ph.D/Result/2018/39

The following candidates, consequent upon evaluation of their theses submitted for the degree of Doctor of Philosophy (Ph.D) on the topic as mentioned against their names and after *viva-voce* examination, have been found qualified for the Degree of Doctor of Philosophy (Ph.D) of this University.

Sl. No.	Enrolment No.	Name	Title of the Thesis
		Faculty of Arts **(Department of Sanskrit)**	
398 (10214)	Pb.D-197/11	Sachin Kumar	"प्रभुदत्त स्वामी द्वारा प्रणीत सर्जनात्मक संस्कृत साहित्य का समालोचनात्मक अध्ययन"
		Faculty of Management Studies	
399 (10319)	Ph.D-121/12	Vishal Kumar Laheri	"A Study on Consumer Behavior Towards Adoption of Green Products in India"
		Faculty of Social Sciences **(Department of History)**	
400 (9938)	LSRC-239/80	Khurshid Khan (W)	"The Textual Formation of a Malfuz: A Historical Study of the Khair al-Majalis"
401 (10320)	MSC-916/04	Shaheen (W)	"Delhi in 1857: Shifting Landscapes and Memories"
		(Department of Political Science)	
402 (10172)	MLN(E)-430/04	Smriti Suman (W)	"Nationalism and Cosmopolitanism in Hindi Cinema, 1990-2011"
		Faculty of Mathematical Sciences **(Department of Mathematics)**	
403 (10301)	DDU-264/04	Nikhil Khanna	"Vanishing Moments of Wavelet Packets and Hilbert Transform of Wavelets"
404 (10234)	WDM(iv)-653/85	Mamta Chaudhary (W)	"Variational-Like Inequalities in Terms of Bifunctions, Optimality and Duality in Vector Optimization Over Cones"

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Part B

Research Scholars who have completed Ph.D.

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Name of the student:	Malti Kapoor
Year of registration:	2012
Year of obtaining Ph.D.:	2017
Supervisor:	Prof. Sunila Sharma
Co-supervisor, if any:	NA
Title of the thesis:	Approximation Methods and Generalized Convexity in Vector Optimization over Cones

Relevant supporting document (issued by the BRS):

अनुसंधान अध्ययन बोर्ड (गणितीय विज्ञान)
BOARD OF RESEARCH STUDIES (MATHEMATICAL SCIENCES)
दिल्ली विश्वविद्यालय, दिल्ली -110007
University of Delhi, Delhi-110007

Email: dean.mathsci@du.ac.in   Ph.27666041

o. BRS(MS)/2012/ 113 – 119   Dated : January 10, 2012

MEMORANDUM

With reference to her/his application dated 21.11.2011 Ms. Malti Chawla W/o Mr. Gaurav Kapoor is hereby informed that the Board of Research Studies (Mathematical Sciences) at its meeting held on December 14, 2011 has approved her/his case for provisional admission to the Ph.D. Course in the Department of **Mathematics**, University of Delhi, w.e.f. the date of her/his joining under the supervision of **Dr. (Ms) Sunila Sharma** on the following research topic:

"VECTOR OPTIMIZATION"

She/He should note that her/his provisional admission is subject to completion of formalities like defence of the thesis topic in a departmental seminar.

She/He is advised to contact her/his supervisor(s) for further instructions and guidance in this regard.

She/He is required to complete the following formalities of provisional admission within four weeks from the date of dispatch of this letter failing which her/his admission shall be treated as cancelled without any further notice:

(a)   To submit the following certificates in original:

(i)   Undergraduate and postgraduate (qualifying) Degrees/Certificates.
(ii)   Mark-sheets of undergraduate and postgraduate (qualifying) examinations.
(iii)   Matriculation/Higher Secondary/Secondary School Certificate for verification of date of birth.

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UNIVERSITY OF DELHI

Relevant supporting document for award of Ph.D. (Certificate/Degree/Result issued to student on successfully completing Ph.D.):

UNIVERSITY OF DELHI
DELHI – 110007

Ref. No.Exam.Br.-IV/Ph.D./Result/2017/35

The following candidates, consequent upon evaluation of their theses submitted for the degree of Doctor of Philosophy (Ph.D.) on the topic as mentioned against their names and after viva-voce examination, have been found qualified for the Degree of Doctor of Philosophy (Ph.D.) of this University:

Sl. No.	Enrol. No.	Name	Title of the Thesis
		Faculty of Arts (Department of Sanskrit)	
307 (10015)	HR-842/2002	Rahul Ranjan	न्यायवैशेषिक दर्शन में आचार्यमीमांसा
		Faculty of Social Sciences (Department of Economics)	
308 (10065)	KM-420/03	P. P. Krishnapriya (W)	"Household Behaviour and Health Outcomes in India"
		(Department of Geography)	
309 (10112)	DSE-13/03	Priti Kumari (W)	"Dynamics of Agricultural Development and Groundwater Degradation in South Ganga – Sone Divide, Bihar"
		Faculty of Mathematical Sciences (Department of Mathematics)	
310 (10040)	SV-139/99	Malti Kapoor nee Malti Chawla (W)	"Approximation Methods and Generalized Convexity in Vector Optimization over Cones"
		Faculty of Science (Department of Chemistry)	
311 (2688)	SD-680/04	Robin Kumar	"Half Sandwich Ruthenium(II) and Rhodium(III) Electron Deficient N,N',N''-Triarylguanidinato Complexes and their Applications in Transfer Hydrogenation and Azide-Alkyne Cycloaddition Reactions"
		(Department of Botany)	
312 (2770)	ZH-637/2002	Shivendra Kumar	"Assessment of Genetic and Phenotypic Diversity in the Oilseed Crop, Safflower (Carthamus tinctorius L.) Development of Core Collections and Genetic Resources for Linkage Mapping"

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Part B

Research Scholars who have completed Ph.D.

Name of the student:	**Priyanka Yadav**
Year of registration:	**2014**
Year of obtaining Ph.D.:	**2020**
Supervisor:	**Prof. Sunila Sharma**
Co-supervisor, if any:	**NA**
Title of the thesis:	**Optimality and Duality in Vector Optimization using Higher- Order Generalized Cone –Convex Functions**

Relevant supporting document (issued by the BRS):

Email: dean_mathsci@du.ac.in   Ph.27666041

Prof. Jagdish Saran   Ref. No.: BRS(MS)/248/2014/ 803
Chairman   Dated: May 21, 2014

MEMORANDUM

With reference to her application dated 09.05.2014 **Ms. Priyanka Yadav** D/o **Sh. Mahavir Singh Yadav** is hereby informed that the Board of Research Studies (Mathematical Sciences) at its meeting held on May 20, 2014 has approved her case for provisional admission to the Ph.D. Course under **Clause 4A of Ordinance VI-B** in the Department of **Mathematics**, University of Delhi, w.e.f. the date of her joining under the supervision of **Dr. Sunila Sharma**, Miranda House with the following research topic:

"Multiobjective Optimization Problems"

She should note that her provisional admission is subject to completion of formalities like defence of the thesis topic in a departmental seminar.

She is advised to contact her supervisor(s) for further instructions and guidance in this regard.

She is required to complete the following formalities of provisional admission within four weeks from the date of dispatch of this letter failing which her admission shall be treated as cancelled without any further notice:

(a)   To submit the following certificates in original:

(i)   Undergraduate and postgraduate (qualifying) Degrees/Certificates.
(ii)   Mark-sheets of undergraduate and postgraduate (qualifying) examinations.
(iii) Matriculation/Higher Secondary/Secondary School Certificate for verification of date of birth.
(iv) Certificate, in the case of SC/ST/OBC/PH category.
(v)   Fellowship/Scholarship award letter

Relevant supporting document for award of Ph.D. (Certificate/Degree/Result issued to student on successfully completing Ph.D.):
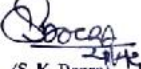
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DELHI – 110007

Ref. No. Exam./IV/Ph.D./ Correction-Result/2020-21/8

In partial modification of this Office Notification No. Exam.Br-IV/Ph.D./Result/ 2020/22 dated 13th October, 2020 at Sl. No. 212 & No. Exam.Br-IV/Ph.D./Result/ 2020-21/37 dated 22nd January, 2021 at Sl. No. 500 regarding the result in respect of following students, the correct Enrolment No. of the Candidate & Title of the Thesis should be read as under:

Enrolment No.	Name	Title of the Thesis
Faculty of Arts **(Department of Hindi)**		
HR-413/81	Hans Raj	"हिंदी पत्रकारिता पर प्रौद्योगिकीय परिवर्तन का प्रभाव"
Faculty of Mathematical Sciences **(Department of Mathematics)**		
SV-213/06	Priyanka Yadav	"Optimality and Duality in Vector Optimization using Higher-Order Generalized Cone-Convex Functions"

(S. K. Dogra)
Joint Registrar (Examination)
Delhi, the _20th_ February, 2021

PROF. D. S. Rawat)
Dean (Examination)