# 3.7.1 Number of collaborative activities with other institutions/ research establishments/industry for research and academic development of faculty and students per year

2018-19

1	Manat		2018-19	Field visit	1 day
	Varsha	M.Sc	Seed storage farm and Agroforestry System	Field visit	1 day
2	Pallavi	M.Sc	Gulabgarh, Kurukshetra Seed storage farm and Agroforestry System,	Field visit	- 8
3	Mohit	M.Sc	Seed storage farm and Agroforestry System	Field visit	1 day
4	Anju	M.Sc	Gulabgarh, Kurukshetra Seed storage farm and Agroforestry System,		
5	Neha	M.Sc	Gulabgarn, Kurukshetra	Field visit	1 day
6	Gulabgarh, Kurukshetra		Gulabgarn, Kurukshetra	Field visit	1 day
7	Jaibharti	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
	Ankit	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
3	Sumeet	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh,Kurukshetra	Field visit	1 day
)	Jyoti Yadav	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
0	Muskaan	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh,Kurukshetra	Field visit	1 day
1	Charu	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
2	Tanya	M.Sc	Seed storage farm and Agroforestov System	Field visit	1 day
3	Deepti	M.Sc	Gulabgarh, Kurukshetra Seed storage farm and Agroforestry System,	Field visit	1 day
1	Prashant	M.Sc	Seed storage farm and Agroforestry System	Field visit	1 day
0	Ankur	M.Sc	Seed storage farm and Agroforestry System	Field visit	1 day
	Neha	M.Sc	Seed storage farm and Agroforestry System	Field visit	avend:
	Savita_	M.Sc	Gulabgarh, Kurukshetra		1 day
	0 038	174,557	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
	Priyanka	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day

Director
Institute of Environmental Studi
KURUKSHETRA UNIVERSITY
KURUKSHETRA-136119

# Kurukshetra University,Kurukshetra

3.7.1 Number of Collaborative activities with other institutes/research establishments/industry and academic development of faculty and students per year (2017-18,2018-19,2019-20,2020-21,

Verified that the following faculty and students of Institute of Environmental Studies, Kurukshetra University Kurukshetra had collaboration with other institutions/research establishments/industries for

19	Rahil	M.Sc	Seed storage farm and Agroforestry System	Field visit	1 day
20	Prachi	M.Sc	Gulabgarh, Kurukshetra	- rana visit	ı uay
21	Shivani		Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
22		M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
2307110	Savita	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
23	Kshitij.	M.Sc	Seed storage farm and Agroforestry System	Field visit	1 day
24	Neetu	M.Sc	Gulabgarh, Kurukshetra Seed storage farm and Agroforestry System,	Field visit	1 day
25	Anju Rani	M.Sc	Seed storage farm and Agroforestry System	Field visit	1 day
26	Balvinder	M.Sc	Gulabgarn, Kurukshetra	Total Visit	Luay
27	Satender	222	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
	PROGRES SEGMENT	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
28	Kalpana	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
29	Pooja	M.Sc	Seed storage farm and Agroforestry System, Gulabgarh, Kurukshetra	Field visit	1 day
30	Rajni	M.Sc	Seed storage farm and Agroforestry System	Field visit	1 day
31	Ajay •	M.Sc	Gulabgarh, Kurukshetra Seed storage farm and Agroforestry System,	Field visit	1 day
32	Shivani	M.Sc	Gulabgarh, Kurukshetra Seed storage farm and Agroforestry System,	Field visit	1 day
1	Varsha	M.Sc	Gulabgarn, Kurukshetra		1 day
2	Pallavi	M.Sc	Gurukul , Pehowa road Kurukshetra Gurukul , Pehowa road Kurukshetra	Field visit	1 day
3	Mohit	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
4	Anju	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
5	Neha	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
6	Jaibharti	M.Sc	Gurukul , Pehowa road Kurukshetra Gurukul , Pehowa road Kurukshetra	Field visit	1 day
7	Ankit	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
8	Sumeet	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
9	Jyoti Yadav	M.Sc	Gurukul , Pehowa road Kurukshetra		1 day
10	Muskaan	M.Sc	Gurukul , Pehowa road Kurukshetra		1 day
11	Charu	M.Sc	Gurukul , Pehowa road Kurukshetra		1 day
12	Tanya	M.Sc	Gurukul , Pehowa road Kurukshetra Gurukul , Pehowa road Kurukshetra		1 day
13	Deepti	M.Sc	Gurukul , Pehowa road Kurukshetra	The state of the s	1 day
14	Prashant	M.Sc	Gurukul , Pehowa road Kurukshetra		1 day
		111100	Condition, Feriowa road Kuruksnetra	Field visit	1 day



# Kurukshetra University, Kurukshetra

3.7.1 Number of Collaborative activities with other institutes/research establishments/industry and academic development of faculty and students per year (2017-18,2018-19,2019-20,2020-21,

Verified that the following faculty and students of Institute of Environmental Studies, Kurukshetra University Kurukshetra had collaboration with other institutions/research establishments/industries for research and academic development.

15	Ankur	M.Sc			
16	Neha	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
17	Savita	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
18	Priyanka	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
19	Rahil	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
20	Prachi	-	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
21	Shivani	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
22	Savita	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
23	Kshitij	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
24	Neetu	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
25	Anju Rani	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
26	Balvinder	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
27	Satender	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
28	Kalpana	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
29	Pooja	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
30	Rajni	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
31	The second secon	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
32	Ajay	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	
_	Shivani	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
1	Varsha	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
2	Pallavi	M.Sc	Gurukul , Pehowa road Kurukshetra		1 day
3	Mohit	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
4	Anju	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
5	Neha	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
6	Jaibharti	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
7	Ankit +	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
8	Sumeet	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
9	Jyoti Yadav	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
10	Muskaan	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
11	Charu	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
12	Tanya	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
13	Deepti	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
14	Prashant	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
15	Ankur	M.Sc	Gurukul , Pehowa road Kurukshetra		1 day
6	Neha	M.Sc	Gurukul , Pehowa road Kurukshetra		1 day
.7	Savita	M.Sc	Gurukul , Pehowa road Kurukshetra	and the second s	1 day
8	Priyanka	M.Sc	Gurukul , Pehowa road Kurukshetra		1 day
9	Rahil	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
0	Prachi	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
1	Shivani	M.Sc	Gurukul Pohowa road Kurukshetra	Field visit	1 day
2	Savita	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
3	Kshitij *	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
4	Neetu	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
	rveetu	INI.3C	Gurukul , Pehowa road Kurukshetra		l day

Director of Environmental Studies
Institute of Environmental Studies
Institute of Environmental Studies
KURUKSHETRA-136119
KURUKSHETRA-136119

# Kurukshetra University, Kurukshetra

3.7.1 Number of Collaborative activities with other institutes/research establishments/industry and academic development of faculty and students per year (2017-18,2018-19,2019-20,2020-21,

Verified that the following faculty and students of Institute of Environmental Studies, Kurukshetra University Kurukshetra had collaboration with other institutions/research establishments/industries for research and academic development.

		mic developr	HCHE.		
25	Anju Rani	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	11.4
26	Balvinder	M.Sc	Gurukul , Pehowa road Kurukshetra	111111111111111111111111111111111111111	
27	Satender	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	-
28	Kalpana	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	
29	Pooja	M.Sc	Gurukul , Pehowa road Kurukshetra		1 day
30	Rajni	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
31	Ajay	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
32	Shivani	M.Sc	Gurukul , Pehowa road Kurukshetra	Field visit	1 day
1	Varsha -	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day 1 day
2	Pallavi	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
3	Mohit	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
4	Anju	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
5	Neha	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
6	Jaibharti	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
7	Ankit	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
8	Sumeet	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
9	Jyoti Yadav	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
.0	Muskaan	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
1	Charu	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
2	Tanya	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
3	Deepti	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
1	Prashant	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
	Ankur	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
	Neha	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
	Savita	M.Sc	Forest department, Haryana (Bir Seonthi Reserved Forest, Kurukshetra)	Field visit	1 day
8 JI	Priyanka	M.Sc	Forest department, Haryana (Bir Seonthi	Field visit	1 day



# Kurukshetra University,Kurukshetra

3.7.1 Number of Collaborative activities with other institutes/research establishments/industry and academic development of faculty and students per year (2017-18,2018-19,2019-20,2020-21,

Verified that the following faculty and students of Institute of Environmental Studies, Kurukshetra University Kurukshetra had collaboration with other institutions/research establishments/industries for

research and academic development, Reserved Forest, Kurukshetra) 19 Rahil M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 20 Prachi M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 21 Shivani M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 22 Savita M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 23 Kshitij. M.Sc Forest department, Haryana (Bir Seonthi Fleld visit 1 day Reserved Forest, Kurukshetra) 24 Neetu M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 25 Anju Rani M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 26 Balvinder M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 27 Satender M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 28 Kalpana M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 29 Pooja M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 30 Rajni M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 31 Ajay -M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) 32 Shivani M.Sc Forest department, Haryana (Bir Seonthi Field visit 1 day Reserved Forest, Kurukshetra) Vivek sharma 1 M.Tech Gurukul, Pehowa road Kurukshetra Field visit 1 day 2 Pardeep Singh M.Tech Gurukul , Pehowa road Kurukshetra Field visit 1 day 3 Vikas Datt M.Tech Gurukul, Pehowa road Kurukshetra Field visit 1 day 4 Anish Sharma M.Tech Gurukul, Pehowa road Kurukshetra Field visit 1 day 5 Digvijay singh M.Tech Gurukul , Pehowa road Kurukshetra Field visit 1 day 6 Prerna M.Tech Gurukul, Pehowa road Kurukshetra Field visit 1 day 7 Sawan Graak M.Tech Gurukul, Pehowa road Kurukshetra Field visit 1 day

# Gender Equity in Science and Technology for Sustainable Development

February 21, 2019

#### REGISTRATION

S. No.	Name & Designation	Official Address	Mob. No. & Email ID	KIT Received Signature
1	Dr. Neelam	Department of Microbiology Kurukshetra University Kurukshetra		
2	Kumkum Verma	Department of Microbiology Kurukshetra University Kurukshetra		
3	Anita	Department of Microbiology Kurukshetra University Kurukshetra		
1	Dr.Neelu Sood	Department of Botany Kurukshetra University Kurukshetra	9416147725, Meely sood 61 @yahoo.	Soud
Š	Ms.Himanshi	Department of Botany Kurukshetra University Kurukshetra		2
٠,	Dr. Paramjeet Kaur	Department of Zoology Kurukshetra University Kurukshetra	98/2495751 paramy cet. jardler gum In 4813370717 sonal salujany @gmail con	July .
1	Ms. Sonal Saluja	Department of Zoology Kurukshetra University Kurukshetra	4813370717 Sonal Saly Rojy agnation	33.00
8 /	Ms Priyanka	Department of Zoology Kurukshetra University Kurukshetra	8295176241 priyarka 2016 ad Qgmail can	Payenle
)	Dr. Pooja Arora	Institute of Environmental Studies Kurukshetra University Kurukshetra	director.environment@kuk.ac.in	Aug
10	Ms. Anushree	Institute of Environmental Studies Kurukshetra University Kurukshetra	director,environment@kuk.ac.in	ann
11	Ms. Arpita	Department of Science & Application Kurukshetra University Kurukshetra	arpita.grover05@gmail.com ankuchiks12@gmail.com	Agreed.
12	Ms. Ankita	Department of Science & Application Kurukshetra University Kurukshetra	ankuchiks12@gmail.com	Arkilo
13	Mrs. Punam Goyal	Dayanand Mahila Mahavidyalaya Kurukshetra (Haryana)	Dmmkkr2010@rediffmail.com	Action Down

Director, Women's Studies Research Centre K.U. KLSOKShall?4-136119.



1	As. Himanshi	Department of Geography Kurukshetra University Kurukshetra	chairperson.geography@kuk.ac.in 8901164014	Winners with
5 1	Ms. Kiran Mann	Department of Geography Kurukshetra University Kurukshetra	chairperson.geography@kuk.ac.in 8901164014	Giran.
6 , 1	Ms. Saroj Bala	Department of Physics Kurukshetra University Kurukshetra	Depth of Physis, K.V.L.	Suybels
7.	Ms. Chetna	Department of Physics Kurukshetra University Kurukshetra	Department of Physics	Unitna
8	Dr. Anu	Department of Home Science Kurukshetra University Kurukshetra		
9	Ms. Sweta Goyal	Department of Home Science Kurukshetra University Kurukshetra		
20	Prof. Anupama Rajput	Department of Home Science Kurukshotra University Kurukshetra		
1	Prof. Charu Virmani Dept of CSE MRIKS	Department of Home Science Kurukshetra University Kurukshetra	Charu- Let @ moise. Cdy. in pooja. Let @ min.edu	Gram
22 05	Deft of Nalls MKIIRS	Department of Home Science Kurukshetra University Kurukshetra	pooja bet @ minedu	\$4.
2.3	Ms. Prachie Sharma Debt of BT MRIIKS	Department of Home Science Kurukshetra, University Kurukshetra	practice muica	Kuselin
24	Ms. Richa Sharma	Department of Home Science Kurukshetra University Kurukshetra		
25	18-20 Students of M.Sc. Food Nutrition and Dietetics 4 <sup>th</sup> Sem.	Department of Home Science Kurukshetra University Kurukshetra	E F	
26	Dr. Rashmi Pundeer	Department of Chemistry Kurukshetra University Kurukshetra	dr. rashing grail rangos 31036 Harinder Koule them Ogmail	Rowledde
27	Dr. Ravinder Kaur	Department of Chemistry Kurukshetra University Kurukshetra	Franklerkour hem @gmail	fairde
28	Ms, Twinkle	Department of Chemistry Kurukshetra University Kurukshetra		

Director,
Women's Studies Research Centre
K.U. KLSUKShill 194-136-119.

/	Ms. Ravina	Department of Chemistry Kurukshetra University Kurukshetra	80593 · 69150 начта вапдач ЮЗ	Paving
10	Ms. Kirti	Department of Chemistry Kurukshetra University Kurukshetra	Sixtilatheco @ grail-	Listi
ひ	Ms. Kajal	Department of Chemistry Kurukshetra University Kurukshetra	7988143377 Sandhyrukajul 226 Ognaikia	totto
v'	Ms. Pooja	Department of Chemistry Kurukshetra University Kurukshetra	8295594033. pojagulia (3)@g.mde	Reja
3.3	Ms, Shilpa	Department of Chemistry Kurukshetra University Kurukshetra		
34	Ms. Mona	Department of Chemistry Kurukshetra University Kurukshetra		
35	Ms. Manisha	Department of Chemistry Kurukshetra University Kurukshetra		
36	Ms. Arti Jangra	Department of Chemistry Kurukshetra University Kurukshetra	1/1	
37"	Deepali	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra	98 2190 500 6 deepalisiwano@gmid.co-	my.
38	Amita Rani	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra		
39,	Raksha	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra	krakula 66 @gmaillem 8368210874	
<u></u>	Rimpy	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra	972985 166-0 10000 Simper @ grad (con	A-100
41	Simran Gupta- Pariyanka	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra	8059416293 Priyanka sagunl 15@gmailc	m Priyay
42	Priyanka Simran Gufta	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra	2193837900 asing an gupta sg@gmil	
(A3)	Diksha	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra	90687-85095. Dikthadhawan 236th	Ditalia

Women's Studies Research Centre K.U. KUSUKShu.TP4-136119.

/	Navneet Kaur	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra		
15	Divya	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra		
46	Sunishtha	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra		
17	Sakshi	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra		
48	Ritu	Institute of Pharmaceutical Science Kurukshetra University Kurukshetra		
49	Ms. Priyanka Rao	Department of Bio Technology Kurukshetra University Kurukshetra		
50	Ms. Vicena Viswakarma	Department of Bio Technology Kurukshetra University Kurukshetra		
51	Ms. Bharti Yadav	Department of Bio Technology Kurukshetra University Kurukshetra		
Ų	Ms. Vipin Bala	Department of Statices Kurukshetra University Kurukshetra	99916-23433 vipinvingak493 a. 9696066952 uimmy 035@gmail.or	CUP
3/	Ms. RimirSharma	Department of Statices Kurukshetra University Kurukshetra	4696066952 Himmy 035@g mailson	Tixting

# ender Equity in Science and Technology for Sustainable Development

February 21, 2019

#### REGISTRATION

S. No.	Name & Designation	Official Address	Mob. No. & Email ID	KIT Received Signature
1.	Priya Shanm	KU.K ( Deplt: of Home science		Periza
2.	Note Brimer	11	9811307978	Nay
3	Sonu Suther	11	7027164642	Sonu
4-	Harpreet	11	9130103380	norposed
5	Kumeri chandre	1 1	9512042521	Davids
δ· ¥	· Rimmy Shauma	Dept of statistics of	9896066452	Zingraf
7.	Ankita Roy chowdhury	11	9196066952	dwaits.
8. A	vopin	91	9896066952	OF.
9.	Sapra Saini	ü	9896066952	Holmogain
10	Arching.	Dept. of Biochemistry	9896066952	Aveny
Į,	Toniya	Doft. of Education	9896066952	Tour
12.	Ganima Summan	Deptt. of Chemishy DAV College (Lahora), Ambala city	9466283833	Genn
13-	Drishti	Department of home science	9992911411	Douglti

Director, Women's Studies Reprarch Centre K.U. KENDKSTA, 174-134-19.

# nder Equity in Science and Technology for Sustainable Development February 21, 2019

#### REGISTRATION

		REGISTRATION		
S. No.	Name & Designation	Official Address	Mob. No. & Email ID	KIT Received Signature
-í.	Saturder Kuman	Dept of Cham.	9017457608	Saterider
2.	Agay Khan	Dept. of Chem.	7404257960	Aray
3.	Kanchan	Dept of cham.	8635990021	Konchan
3.	Tanianna Dalal	Deptt of chem.	9296332396	Tamanna
ч.	Navneet	Deptt. of Chim.	9992290075	Navneet
^5	Simron Goswami	Dept of Chem.	9467984006	Suzay
16.	Rahul Shama	Dept. of Chemistry	9211928886	Palut
17.	Sandeck	Dept of Chumistry	869160327	Sanderk
W.	Rollit Kuman	Debt. of chamistry	9355988930	Rowan
9	Richa Shauma Diksha	Deft of Pharma.	7464385550	Difelio 82000_
10	REENA CHERRAN	Dept. of Pham. Sciences	9518630941	Rew

Director, Women's Studies Research Centre K.U. KUNDKShu, 194-12-6119.

# ender Equity in Science and Technology for Sustainable Development

February 21, 2019

S. No.	Name & Designation	REGISTRATION Official Address	Mob. No. & Email ID	KIT Received
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No. HARSAC/TR/PGS/2018/33



### Haryana Space Applications Centre (HARSAC)

(An 150 9001-2015 Certified Organization)

Department of Science & Technology, Government of Haryana

CCS HAU Campus, Hisar



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(Sponsored by ISRO-NNRMS, Deptt. of Space, GOI)

#### CERTIFICATE

Certified that Ms. Pooja Grakh D/o Sh. Rameshwar Das student of M.Sc. (Geography), Kurukshetra University, Kurukshetra, has successfully completed Six Weeks Summer Training Course on "Remote Sensing and Geographical Information System (GIS)" from 04<sup>th</sup> June, 2018 to 12<sup>th</sup> July, 2018. Based upon the attendance, written test and practicals, she has been ranked First in the Training Course.

Training Coordinator

Chief Scientist

No. HARSAC/TR/PGS/2018/23



# Haryana Space Applications Centre (HARSAC) (An 150 9001-2015 Certified Organization) Department of Science & Technology, Government of Haryana CCS HAU Campus, Hisar



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Training Coordinator

Chief Scientist



# Haryana Space Applications Centre (HARSAC) (An 150 9001-2015 Certified Organization)

Department of Science & Technology, Government of Haryana CCS HAU Campus, Hisar



Six Weeks Summer Training Course for P.G. Students on "Remote Sensing and GIS" (Sponsored by ISRO-NNRMS, Deptt. of Space, GOI)

#### CERTIFICATE

Certified that Ms. Sanju Rani D/o Sh. Ramesh Kumar student of M.Sc. (Geography). Kurukshetra University, Kurukshetra, has successfully completed Six Weeks Summer Training Course on "Remote Sensing and Geographical Information System (GIS)" from 04<sup>th</sup> June, 2018 to 12<sup>th</sup> July, 2018. Based upon the attendance, written test and practicals, she has been graded as Good in the Training Course.

Training Coordinator

Chief Scientist







जल संसाधन, नदी विकास एवं गंगा संरक्षण मंत्रालय Ministry of Water Resources, River Development and Ganga Rejuvenation केन्द्रीय भूमि जल बोर्ड, उत्तर पश्चिमी क्षेत्र, चण्डीगढ़ Central Ground Water Board, North Western Region, Chandigarh

#### भागीदारी प्रमाण पत्र / Certificate of Participation

This is to certify that	Pankaj Bhardwaj	Designation Research Scholar
	~ ~	has participated in one day workshop on "Ground Water
		nagement" held at Kurukshetra University on 9th March, 2018.

Date: 09.03.2018 Place: Kurukshetra

Anoop Nagar Regional Director Central Ground Water Board NWR, Chandigarh Prof. (Dr) B.S. Chaudhary Chairman

Baudhan

Chairman Department of Geophysics Kurukshetra University

#### DEPARTMENT OF FINE ARTS KURUKSHETRA UNIVERSITY, KURUKSHETRA

(Established by State Legislature Act XII of 1956) ('A+' Grade, NAAC Accredited)

# TO WHOM IT MAY CONCERN

This is to certify that the Post-Graudate Students of M.A. (Fine Arts) from the Arya Kanya Mahavidyalaya, Shahbad, Kurukshetra visited the Library of Department of Fine Arts for Practical Research Work during the academic session 2017-18, 2018-19, 2019-20, 2020-21, 2021-22.

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Department of Fine Art.
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NATIONAL INSTITUTE OF DESIGN, MARTANA

Autonomous Institute under the DPIIT
Ministry of Commerce & Industry, Government of India
Government Polytechnic Building at Umri,
Kurukshetra, Haryana.

Red No 670 Doted !- 20/08/19

Dear Prof. Ram Viranjan Ji

Subject: - To conduct screen printing activity in your department.

The National Institute of Design, Haryana (Kurukshetra) "NID-H" is a design school in Umri, Kurukshetra, India. The institute functions as an autonomous body under the Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, of the Government of India.

Reference a meeting of our faculty in Visual Communication Design Sh. Manpal Singh Setia and further discussion in detail with Dr. Rakesh Bani, Faculty of Fine Art Department, Kurukshetra on the subject mentioned above.

Visual Communication is conducting the course 'Introduction to Fieldwork' from 13<sup>th</sup> August to 23<sup>rd</sup> August 2019 for which we have invited Ms. Kavya Agrawal (Ahmedabad) as visiting faculty.

As per the course requirement, we look forward to conduct the Screen Printing session with collaboration with Kurukshetra University's Fine Art department on 21" august 2019 (Wednesday). Material list was also submitted last week.

We would be grateful for your kind support & guidance.

Prof. D S Kapoor

Officer on Special Duty, National Institute of Design,

Kurukshetra

Sh. Ram Viranjan (Chairman) Department of Fine Arts Kurukshetra University Kurukshetra.

Dr. Ban 9 25/8/1

### Quasi-Static Deformation of a Uniform Thermoelastic Half-Space Due to Seismic Sources and Heat Source

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#### ABSTRACT

This paper investigates the quasi-static plane deformation of an isotropic thermoelastic half-space due to buried seismic sources and heat source. Governing equations of thermo-elasticity are solved to obtain solutions for seismic sources in a thermoelastic half-space. The general solutions are acquired with the aid of Laplace and Fourier transforms and with the use of boundary conditions. The case of dip-slip line dislocation is studied in detail along with line heat source. Analytical solutions for two limiting cases: adiabatic and isothermal, are obtained. The solutions for limiting cases: adiabatic and isothermal, are obtained. The solutions for displacement, stresses and temperature in space-time domain are obtained by using a numerical inversion procedure. The accuracy of the proposed method is verified through a comparison of the results obtained with the existing solutions for elastic medium, in addition, numerical results for displacements, stresses and temperature function, induced by a vertical dip-slip dislocation and line heat source, are presented graphically to illustrate the effect of inclusion of thermal effect in simulation of the problem. simulation of the problem.

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Keywords: Thermoelastic, Seismic source, Dip-slip dislocation, Plane deformation; Heat source.

#### 1 INTRODUCTION

THE study of the Earth deformation, associated with faults due to earthquakes, has been a subject of great interest for geophysicists and seismologists. To investigate the deformation associated with faults, the Earth is often modelled as an elastic half-space [1-19]. Two dimensional dip-slip dislocation models of earthquake faults have been used extensively by many researchers. Based on the pioneer work of Singh and Garg [20] on two dimensional seismic sources, several articles [21-32] on deformation caused by dip-slip line dislocation sources have been appeared in literatures. In most of these studies, the medium has been considered as a uniform elastic halfspace or two half-spaces in a welded contact or a layer over an elastic half-space containing seismic sources.

As the temperature inside the Earth is not constant and it plays a significant role in geophysical studies, so it becomes more appropriate to consider thermoelastic model of the Earth rather than the elastic one. Some researchers have modelled the Earth as a thermoelastic medium and studied the deformation due to thermal and mechanical

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# Effect of Anisotropic Thermal Conductivity on Deformation of a Thermoelastic Half-Space Subjected to Surface Loads

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#### ABSTRACT

The study is motivated by a desire to develop an analytical technique to study quasi-static plane strain deformation of a thermoelastic medium due to surface loads by taking into account the anisotropy of thermal conductivity. By applying the Laplace and Fourier transforms to the state variables involved in the basic governing equations, the solutions for the stresses, displacements, temperature difference and heat flux are obtained. Considering the boundary conditions, the problem is solved in the transformed domain. The actual solutions of the problem in the physical domain are acquired by inverting the Laplace-Fourier transform. Finally, some numerical examples are given to demonstrate the influences of the surface loads and the anisotropy of thermal conductivity on the thermo-elastic response.

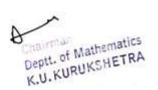
Keywords: Anisotropy, Thermal conductivity, Surface loads, Thermoelastic.

#### I. INTRODUCTION

The thermo-elastic problems of the time-dependent behaviour of material with surface loads are significant and have received extensive attention in the field of geology, environmental engineering, soil science and civil engineering. The problems for thermal response and deformation caused by the thermal and mechanical loads have been studied by numerous investigators [1-12].

It is observed from practice that the typical deposit process of natural geomaterials may lead to clear differences in thermal conductivity between different directions, especially for the horizontal and vertical thermal conductivity. Therefore, some researchers focused their attention on the study of the thermoelastic response of the material with anisotropic thermal conductivity. Pan [13] studied the transient

thermoelastic deformation in a transversely isotropic and layered half-space by surface loads and internal sources. Wei and Yu-Qiu [14] discussed plane problem of orthotropic quasi-static thermoelasticity. Sharma and Kumar [15] investigated the plane strain problems in generalized theory of thermo-elasticity in a homogeneous transversely isotropic medium. Kögl and Gaul [16] presented a boundary element method for dynamic anisotropic coupled thermoelasticity and the results for quasi static and stationary thermoelasticity were also deduced. Youssef and El Bary [17] discussed the thermal shock problem to the general case with variable thermal conductivity Aouadi [18] studied the problem of variable ejectrical and thermal conductivity in the theory of generalised thermoelastic diffusion and discussed thermoelastic diffusion interactions in an infinitely long solid cylinder subjected to a thermal shock on its surface, which is in contact with a permeating substance.



Vol 22 No. 1 (2015)

#### Analysis of Two Anti Plane Shear Collinear Cracks in a Porous Piezoelectric Layer Bonded between Two Elastic Half-Spaces

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(Received April 03, 2018)

Abstract: In this paper, an analysis of two collinear anti-plane shear cracks in a porous piezoelectric layer bonded with two similar elastic half-spaces is done. The impermeable crack face conditions are considered. Using Fourier transform, the problem is reduced to three pairs of integral equations. The displacement and electric potentials are expanded as a series of Jacobi polynomials and then the integral equations are solved by making use of Schmidt's method. The analytic expressions, for the intensity factors at the right and left end of the crack, are obtained. A particular case for the piezoelectric layer is also discussed in which the expressions for the intensity factors for the cracks in a piezoelectric layer are derived. Numerical calculations are made to show the effects of geometry and position of cracks on the stress intensity factors and electric displacement intensity factors.

Keywords: Crack: Porous Piezoelectric materials: Shear:Integral equations:Intensity factor.

2010 AMS Classification Number: 74A45, 76S05.

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#### Quasi-Static Deformation Caused by Seismic and Heat Sources in a Thermoelastic Solid in Contact with a Porous Solid

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Abstract: A study of deformation, with quasi-static assumption, of a medium, which consists of thermoelastic solid and poroelastic solid half-spaces, due to seismic sources and heat source in thermoelastic solid is carried out. The formulated quasi-static problem is solved using Airy's stress function approach. The expressions of Airy's stress function and temperature difference function in an unbounded thermoelastic medium due to various types of seismic sources and heat source are obtained. For line forces, dip-slip dislocation and line heat source in the thermoelastic solid medium, the solutions in the form of displacements, stresses, pore pressure and temperature difference function are obtained. For a vertical dip-slip dislocation, analytical solutions are derived for particular cases of adiabatic and isothermal conditions in the thermoelastic medium and undrained and drained conditions in the poroelastic medium. The results, so obtained, have been verified by making comparison with earlier results. Numerical results for displacements, pore pressure, temperature difference function and stresses have also been computed for vertical dip-slip fault. Temperature profile and stresses contours have also been plotted for line heat source.

Keywords: seismic sources, thermoelastic, poroelastic, dip-slip dislocation, heat source.

2010 AMS Classification Number: 74F05, 74F10, 74L05, 35Q74, 35E20, 35B30.



#### REGULAR ARTICLE



#### Multidrug Therapy for HIV Infection: Dynamics of Immune System

Deepmala Kamboj1 · M. D. Sharma2

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#### Abstract

A mathematical model of the dynamics of the immune system is considered to illustrate the effect of its response to HIV infection, i.e. on viral growth and on T-cell dynamics. The specific immune response is measured by the levels of cytotoxic lymphocytes in a human body. The existence and stability analyses are performed for infected steady state and uninfected steady state. In order to keep infection under control, roles of drug therapies are analyzed in the presence of efficient immune response. Numerical simulations are computed and exhibited to illustrate the support of the immune system to drug therapies, so as to ensure the decay of infection and to maintain the level of healthy cells.

Keywords HIV infection · CD4+ T cells · Immune response · Steady state · Stability · Efficacy

#### 1 Introduction

In the past decade, several mathematical models have been developed to describe the external viral dynamics of HIV infection in an individual. These models play a significant role in developing a better understanding of HIV/AIDS and drug therapies. The role of immune response to HIV infection has received much attention in recent years (Cuipe et al. 2006; Culshaw et al. 2004; Nowak and May 2000; Wodarz and Nowak 1999; Zhu and Zou 2009). Aids progresses differently in different patients. The patient-specific immune response to HIV may be an important determinant of the rate of disease progression. Antibodies, cytokines, natural killer cells, B-cells,

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#### ORIGINAL RESEARCH



#### Effect of Delayed Immune Response on the Dynamics of HIV Infection Under Multidrug Treatment

Deepmala Kamboj1 - M. D. Sharma2

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#### Abstract

This study considers a mathematical model that describes the interaction between HIV, CD4+ T-cells and immune response of the body. The immune response activates with a time delay. A combined antiretroviral drug therapy is applied to control the progression of HIV to AIDS. Conditions are obtained for the existence and stability of uninfected and infected steady states. The delay in immune response contributes to alter the stability of steady states. More precisely, this time delay may not affect the local asymptotical stability of uninfected steady state, but can destabilize the infected steady state, which further leads to Hopf bifurcations. A critical delay has been identified to classify the significance of immune system of the body in changing the HIV infection dynamics. The direction of Hopf bifurcation and the stability of bifurcating periodic solutions are obtained using the center manifold theory. Numerical simulations are computed and exhibited to illustrate the effects of delayed immune response on the growth or decay of infection in the presence of combined drug therapy.

Keywords HIV infection - CD4+ T cells - Immune response - Steady state - Stability - Efficacy - Time delay - Hopf bifurcation

#### Introduction :

Human immunodeficiency virus (HIV) is an intracellular parasite, whose survival and duplication depend on a host cell. The replication cycle of HIV starts with the binding of gp120 protein of HIV with cells having a CD4 molecule on their surfaces. Most particularly, CD4 molecule is found on the CD4+ T-cells, which coordinate the immune system. The HIV envelope and CD4+ T-cell membrane fuse together and allow HIV virus to enter into CD4+ T-cell. Then, the virus transfuses the genetic material (viral RNA) into the host cell. After transfusion, the viral RNA takes the help of reverse transcriptase enzyme to form DNA. The

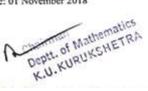
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#### KOROVKIN TYPE APPROXIMATION THEOREMS VIA f-STATISTICAL CONVERGENCE

VINOD K BHARDWAJ, SHWETA DHAWAN

ABSTRAUT. The concept of f-statistical convergence which is, in fact, a generalization of statistical convergence, and is intermediate between the ordinary convergence and the statistical convergence, has been introduced recently by Aispara et al. (Quaest. Math. 37: 525-530, 2014). The main object of this paper is to prove Korovkin type approximation theorems using the notion of f-statistical convergence. A relationship between the newly established Korovkin type approximation theorems will f-statistical convergence, the classical Korovkin theorems and their statistical analogs has been studied. A new concept of f-statistical convergence of degree  $\beta(0 < \beta < 1)$  has also been introduced and as an application a corresponding Korovkin type theorem is established.

#### 1. INTRODUCTION

The idea of statistical convergence, which is in fact a generalization of the usual notion of convergence, was first introduced by Fast [19] and Steinbaus [40] independently in the same year 1951 and since then several generalizations and applications of this concept have been investigated by various authors, namely  $\hat{S}al$ át [39], Fridy [20], Connor [16], Aizpuru et al. [2], Işik and Akbaş [23], Aktuğlu [3], Gadjiev and Orhan [21], Mursaleen and Alotaibi [35], Tripathy [41], Tripathy and Sen [44], Tripathy and Dutta [43] and others.

Statistical convergence depends on the natural density of subsets of the set  $\mathbb{N} = \{1, 2, 3, ...\}$ . The natural density d(K) of set  $K \subseteq \mathbb{N}$  (see [36, Chapter 11]) is defined by

$$d(K) = \lim_{n\to\infty} \frac{1}{n} |\{k \le n : k \in K\}|,$$
 (1.1)

where  $|\{k \leq n : k \in K\}|$  denotes the number of elements of K not exceeding n. Obviously we have d(K) = 0 provided that K is finite.

Definition 1.1. [26] Let X be a normed space. A sequence  $x = (x_k)$  in X is said to be statistically convergent to some  $x \in X$ , if, for each  $\epsilon > 0$  the set  $\{k \in \mathbb{N} :$ 

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N.U. KURUKSHETRA

<sup>2000</sup> Mathematics Subject Classification. 40A35, 41A36, 41A25, 47B38, 40A30.

Key words and phruses, modulus function; density; statistical convergence; positive linear operator; Korovkin type approximation theorem.

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KYUNGPOOK Matic J. 58(2018), 733-746. https://doi.org/10.5660/KMJ-2018-58-4-733 pISSN 1225-6951 - «ISSN 0454-8124 (2) Kynngpook Mathematical Journal

#### Density by Moduli and Korovkin Type Approximation Theorem of Boyanov and Veselinov

VINOD K. BHARDWAJ\*

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SHWETA DHAWAN

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Abstract. The concept of f-statistical convergence which is, in fact, a generalization of statistical convergence, has been introduced recently by Aizpuru et al. (Quaest. Math. 37: 525-530, 2014). The main object of this paper is to prove an f-statistical analog of the classical Korovkin type approximation theorem of Boyanov and Veselinov. It is shown that the f-statistical analog is intermediate between the classical theorem and its statistical analog. As an application, we estimate the rate of f-statistical convergence of the sequence of positive linear operators defined from  $C^*[0,\infty)$  into itself.

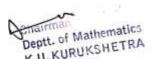
#### 1. Introduction

The idea of statistical convergence was given by Zygmund [36] in the first edition of his monograph published in Warsaw in 1935. The concept of statistical convergence was formally introduced by Steinhaus [35] and Fast [16] and later reintroduced by Schoenberg [34]. Various generalizations and applications of statistical convergence have been studied by Salát [33], Fridy [17], Aizpuru et al. [1], Gadjiev and Orhan [18], Mursaleen and Alotaibi [28] and many others.

Statistical convergence depends on the natural density of subsets of the set  $\mathbb{N} = \{1, 2, 3, ...\}$ . The natural density d(K) of set  $K \subseteq \mathbb{N}$  (see [29, Chapter 11]) is defined by

(1.1) 
$$d(K) = \lim_{n \to \infty} \frac{1}{n} |\{k \le n : k \in K\}|,$$

Received April 4, 2018; revised August 9, 2018; accepted August 13, 2018. 2010 Mathematics Subject Classification: 40A35, 41A36, 41A25, 47B38, 40A30. Key words and phrases: modulus function, statistical convergence, positive linear operator, rate of convergence, Korovkin type approximation theorem.



#### RESEARCH

#### Open Access



# Application of f-lacunary statistical convergence to approximation theorems

Vinod K Bhardwaj " and Shweta Dhawan!

\*Correspondence vinosh\_objetrestfmal.com \*Department of Mathemarics, Kunukinetra University, Kunukinetra, India Full list of author information is

available at the end of the atticle

#### Abstract

The concept of f-lacunary statistical convergence which is, in fact, a generalization of lacunary statistical convergence, has been introduced recently by Bhardwaj and Dhawan (Abstr. Appl. Anal, 2016-9365037, 2016). The main object of this paper is to prove Korovkin type approximation theorems using the notion of f-lacunary statistical convergence. A relationship between the newly established Korovkin type approximation theorems via f-lacunary statistical convergence, the classical Korovkin theorems and their lacunary statistical analogs has been studied. A new concept of f-lacunary statistical convergence of diegree g (0 < g < 1) has also been introduced, and as an application a corresponding Korovkin type theorem is established.

MSC: 40A35; 41A36; 41A25; 47B38; 40A30

Keywords: Modulus function; Density, Lacunary statistical convergence; Positive linear operator; Korovkin type approximation theorem

#### 1 Introduction

#### 1.1 Density by moduli and statistical convergence

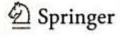
The idea of statistical convergence, which is, in fact, a generalization of the usual notion of convergence, was first introduced by Fast [14] and Steinhaus [37] independently in 1951 and since then several generalizations and applications of this concept have been investigated by various authors, namely Salát [35]. Fridy [16], Airpuru et al. [1], Aktuğlu [2], Gadjiev and Orhan [18], Mursaleen and Alotaibi [28], and many others.

Statistical convergence depends on the natural density of subsets of the set  $\mathbb{N} = \{1, 2, 3, ...\}$ . The natural density d(K) of a set  $K \subseteq \mathbb{N}$  (see [29, Chap. 11]) is defined by

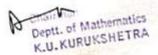
$$d(K) = \lim_{n \to \infty} \frac{1}{n} |\{k \le n \colon k \in K\}|,$$

where  $|\{k \le n : k \in K\}|$  denotes the number of elements of K not exceeding n. Obviously, we have d(K) = 0 if K is finite.

**Definition 1.1** ([22]) Let X be a normed space. A sequence  $\{x_k\}$  in X is said to be statistically convergent to some  $x \in X$ , if for each  $\epsilon > 0$  the set  $\{k \in \mathbb{N} : \|x_k - x\| \ge \epsilon\}$  has natural



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## On Deferred f-statistical Convergence

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ABSTRACT. In this paper, we generalize the concept of deferred density to that of deferred f-density, where f is an unbounded modulus and introduce a new non-matrix convergence method, namely deferred f-statistical convergence or  $S_{p,q}^{f}$ -convergence. Apart from studying the Köthe-Toeplitz duals of  $S_{p,q}^{J}$ , the space of deferred f-statistically convergent sequences, a decomposition theorem is also established. We also introduce a notion of strongly deferred Cesàro summable sequences defined by modulus f and investigate the relationship between deferred f-statistical convergence and strongly deferred Cesàro summable sequences defined by f.

## 1. Introduction and Preliminaries

The idea of statistical convergence which is, in fact, a generalization of the usual notion of convergence was introduced by Fast [17] and Steinhaus [31] independently in the same year 1951 and since then several generalizations and applications of this concept have been investigated by various authors namely Bhardwaj et ul. [4, 5, 6, 7], Connor [13, 14]. Et and Şengül [16], Fridy [18], Işık [21], Işık and Akbaş [22], Mursaleen [26], Rath and Tripathy [28], Salat [30], Temizsu [32] et al. and many others.

The idea of statistical convergence depends upon the density of subsets of the set N of natural numbers. The natural density  $\delta(K)$  of a subset K of the set N of natural numbers is defined by

$$\delta(K) = \lim_{n \to \infty} \frac{1}{n} |\{k \le n : k \in K\}|$$

Received October 18, 2017; accepted March 9, 2018.

2010 Mathematics Subject Classification: 40A35, 40C05, 46A45.

Keywords and phrases: statistical convergence, modulus function, strong Cesàro summability, Köthe-Toeplitz duals.

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TTR	2018-19	18	National Workshop	ICSSR, North Western Regional Centre, Chandigarh	ARCHANA BHARGAVE	28-29 March 2019	Workshop on Empowering Women through Legal Awareness	
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ITTR:	2018-19	9,	School Internship	Government senior secondary school, Kamoda	SUPRIYA DEVI	2018-19	16 Weeks	School Internship
ITTR	2018-19	10	School Internship	Government senior secondary school, Kamoda	HARVIT KAUR	2018-19	16 Weeks	School Internship
TTR	2018-19	11	School Internship	Government senior secondary school, Kameda	PODIA	2018-19	16 Weeks ASmyA	School Internship

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TTR	2016-19	4.3	N. S. C.					
71N.*2	11/10:19	12	School Internship	Government sexual secondary wheel. Kamoda	PASSIR	2018-10	Ali Witeks	School Internship
4]]	2018-19	13	School Interestry	Government senior secondary tribool, Kamada	REETIA RAND	2018-19	16 Week:	School Infernship
TH	2015-19	14	School Internship	Government senior secondary school, Kamoda	SAKSHI	2018-19	16 Weeks	School Internship
TTR.	2018-15	15	School Internship	Government senior secondary school, Kamoda	NEHA GARG	2018-19	16 Weeks	School Internship
TTR	2018-19	16	School Internship	Government senior secondary school, Kamoda	KIRTI	2018-19	16 Weeks	School Internship
TIR	2018-39	17	Schnol intermina	Government Gris Middle school, kinningsb	WOTI	2018-19	16 Weeks	School mension
TTH	2018-19	,18	School Internship	Government Girls Middie school, Mirrapur	TAMANNA RANI	2018-19	16 Wegks	School Internship
ITTH.	2018-19	19	School Internship	Government Girls Middle school, Mirzapur	DEEPA RANI	2018-19	16 Weeks	School Internship
ITR	2018-19	20	School Internship	Government Girls Middle school, Mirzapur	NITESH	2018-19	16 Weeks	School Internship
TTR	2018-19	21	School Internship	Government Girls Middle school, Mirzapur	SAPNA DEVI	2018-19	16 Weeks	School Internship
TTII.	201B-15	22	School Internship	Government Girls Middle schoot, Micrapur	ALKAMA	2018-19	16 Weeks	Schaal Internship

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<u> </u>								4
TTE	2018-19	23	School Intermitip	Government Girls Middle school, Micrapur	HAIVINDER KADR	2014-19	Ib Weeks	School Internship
TTR	2018-19	24	School Interestip	Government Girls Middle school Mempur	VANDANA RATHI	2018-19	16 Weeks	School
TTR		25	School Internship	Government senior secondary school, lind Gate	SAURABH YADAV	2018-29	16 Weeks	School Interniship
ITR	2018-19	26	School Internship	Government senior secondary school, lind Gate	VIKRANT SHARMA	2018-19	16 Weeks	School internship
TTR.	2018-19	27	School Internship	Government senior secondary school, lind Gate	SANTOSH RANI	2018-19	16 Weeks	School Internship
TTR	2018-19	28	School*	Government senior	GURMEET KAUR	2018-19	16 Weeks	School unternaine
TTR.	2018-19	29	School Internship	Government senior secondary school, lind Gate	SARSHI MEHTA	2018-19	16 Weeks	, School Internship
TTR	2018-19	30	School Internship	Government senior secondary school, lind Gate	RENU RANI	2018-19	16 Weeks	School internship
TTR	2018-19	32	School Internship	Government senior secondary school, lind Gate	REEMA	2018-19	16 Weeks	School
TTR	2018-19	32	School Internship	Government senior secondary school, lind Gate	PRIYANKA MEHLA	2018-19	16 Weeks	School Internship
TTR.	2018-19	33	School Internship	Government senior secondary school, lind Gate	AVNEET KAUR	2018-19	16 Weeks	School Internable

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TER.	2018-19	7.0						*:
		. 34	tehool. letimolóp	Government synor secondary school, find Gate	ahu xogi	2018-19	16 Weeks	School Internship
TH	2018-19	35	School Interestip	Government senior secondary school, find Gate	MANISHA SHARMA	2018-19	16 Weeks	School Internship
TTR	2018-19	36	School Internship	Government Girls senior secondary school, Thanesur	DHARTI SHARMA	2018-19	16 Weeks	School Internship
ITTR	2018-19	37	School Internship	Government Girls senior secondary school, Thanesar	SONIA DEVI	2018-19	16 Weeks	School Internship
ITTR	2018-19	38	School Internship	Government Girls senior secondary school, Thanesar	SUNIL KUMAR	2018-19	16 Weeks	School Internship
ITTR	2018-19	39	School	Government Girls senior secunior y Manie Thaneser	IVOTEDEVI	2018-19	16 Weeks	School *
OTR	2018-19	40	School Internship	Government Girls sepair secondary school, Thanesar	SANDEEP SINGH	2018-19	16 Weeks	School Internship
ITTR	2018-19	41	School Internship	Government Girls senior secondary school, Thanesar	DIVYA	2018-19	16 Weeks	School Internship
ma	2018-19	42	School Internship	Government Girls senior- secondary school, Thanesar	NIDHERANI	2018-19	16 Weeks	School Internship
ITTR	2018-19	43	School Internship	Government Girls senior secondary school, Thanesar	PRIYANKA	2018-19	16 Weeks	School Internship
ITTE	2018-15	44	School Internship	Government Girls senior secondary school, Thansesar	POUR RANI	2018-19	16 Weeks Asuas	School Internship

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JITE	2028 10	, 45	Internship	school, Hatgal	MONIKA .	2018-29	16 Weeks	. School Internship
ITTR	2018-19	46	School Internship	Government Middle school, Ratgat	PODRAM RANI	2018-19	16 Weeks	School Internship
TTO.	2019.10	-67	Settent Internation	Government Middle" school, Ratgal	ASSETA MEHRA	7018-10	16 Weeks	School Internship
TTR	2018-19	45	School Internship	Government Middle sthool, Ratgal	RAIN	2018-19	16 Weeks	School Internship
TTR	2018-19	49	School Intereship	Government Middle school, Ratgal	SUKHANDER SINGH	2018-19	16 Weeks	
TTR	2015-19	50	5chool laternship	Government Middle school, Ratgal	ANJALE	2018-19	16 Weeks	School Internship
TTR	2018-19	51	School Internship	Government Middle school, Ratzal	PRERNA SAINI	2018-19	I6 Weeks	School Internship
TTA	2018-19	52	School Internship	Government Middle school, Rateal	MEGHA ARORA	2018-19	36 Weeks	School Internship
	violi-19	33	internship	school, Ratgal	entered anne	V019-13	In weeks	School Internship
TTE	2018-19	54	School Internship	Government Middle school, Ratgal	RAINI DEVI	2018-19	15 Weeks	School Internship
TTR	2018-19	55	School Internship	Government senior tecandary school, Devidaspura	VANDANA SHARMA	2018-19	16 Weeks	School Internship
TTR	2018-19	56	School Internship	Government senior secondary school, Devidaspura	RINKU	2018-19	16 Weeki	School Internship
TR	2018-19	57	School Internship	Government senior secondary school, Devidaspura	KULDEEP KUMAR	2018-19	16 Weeks	School Internship
TR	2018-19	58	School Internship	Government senior secondary school, Devicinspura	NEHA RANI	2018-19	16 Weeks	School Internahip

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TTH.	2015-19	50	Schant Internship *	Government senior, snoundary school, Devidaspura	MANULITATIO .	2018-19	16_Weeks	School Internship
TTA:	2018-19	60	School Internchip -	Government senior secondary school, Devictspura	nutu .	2018-19	16 Weeks	School Internitip
TTR	2018-19	61	School Intereship	Government senior secondary school, Devidaspura	SAPNA DEVI	2018-19	16 Weeks	School Internship
ITTR	2015-19	62	School Internship	Government senior secondary school, Devidaspura	GARIMA ARDRA	2018-19	16 Weeks	School Internship
ITTR	2018-19	63	School Internship	Government senior secondary school, Devidaspura	LAKHWINDER KAUR	2018-19	16 Weeks	School Internship
ITTR	2018-19	64	School	Government sensor reconnect to room Devictaspora	anjali sharma	2018-19"	16 Weeks	School
ITTR	2018-19	65	School Internship	Government High school, Pipli	SALEM LATA	2018-19	16 Weeks	School Internship
HTTP	2018-19	66	School Internship	Government High school, Pipli	VHAY	2018-19	16 Weeks	School Internship
ITTR	2018-19	67	School Internship	Government High school, Pipli	SURENDER KUNTAR	2018-19	16 Weeks	School Internship
1776	2018-19	68	School Internship	Government High school, Pipli	MANRU	2018-19	16 Weeks	School Internship
ITTR	2018-19	69	School Internship	Government High school, Pipli	SHIWANI	2018-19	16 Weeks	School Internship
ITTE	2018-19	70	School Internahip	Government High school, Pupil	ANU	2018-19	16 Weeks	School Internship
ITTE	2018-19	71	School Internship	Government High school, Pipti	5AVITA	2018-19	16 Weeks	School Internship

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STEE	2016-12	.12	Schnor + Internship	Government segar recording school Micropor	Ahou mesi	J016 29	16 Weeks	School Intrinship
TTR.	2018-19	-85	School Internehip*	Government senior reconstry school Mirzspur	SCHIRA	2018-19	16 Weeks	School Internation
TTR	2018-19	tie.	School Internship	Government senior secondary school, Mirzapur	HIMANI ROHILLA	2018-19	36 Weeks	School Intereship
a th	2018-19	67	School Internship	University Secion or school, KUK	NANDINI BAGGA	2018-19	16 Weeks	School internship
221	2018-15	11	School Internship	University Serior Machinel, KUK	POONAM DEVI	2018 15	16 Weeks	School Internship
Hn:	2018-19	89	School Internship	University Senior sr.school, KUK •	REENA MADAAN	2018-19	16 Weeks	School Internship
H+	2018-19	97	School	University Senior	MANU DEVI	2018219	16 Weeks	School
TH	2019-19	91	School Internship	University Senior anachoof, KUK	PARVEEN KUMAR	2018-19	16 Weeks	School Internship
TTH	2018-19	92	School Internship	University Senior sr.school, KUK	RAVI KUMAR	2018-19	16 Weeks	School Internship
178	7018-1E	63	School Internahip	University Senior ar school, KUK	PARVEEN	2018-16	16 Weeks	School
116.	1016-19	94	School Internship	University Seman srischool, KUK	DEEPAK KUMAR	2018-19	10 Weeks	School Internahip
TTR	2018-19	95	School Internship	University Senior sr.school, KUK	GEETAMIALI PANDEY	2018-19	16 Weeks	School Internship
TR	2018-19	96	School Internship	University Senior or school, KUK	SANGEETA RANI	2018-19	16 Weeks	School Internship
Till	2018-15	97	School Internation	University Senior or achool, KUII	MONIKA	2018-19	16 Weeks	School Internation

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dik 2018-19	Nai Taling, Experienced Litationing and work Education in School and Teacher Education Curriculum	Mahatina Garotto Mational Council Rural Esfucation Hydrobad	la la	7 days	Faculty Development . Programmu	
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