SUPPORTING DOCUMENTS of 6.3.3

I) STATA and SPSS workshop (Annual Report 2015-16 page No. 33)

Poster of the workshop:



Report of the Workshop

Date: 18th Sep, 2015

Speaker: Mr. Jay Dev Dubey

Designation: Consultant with Research and Information System for Developing Countries

(RIS)

Speaker: Mr. Kapil Patidar

Designation: Research Officer, Department of Economic Affairs, Ministry of Finance,

Government of India

Topic: An Introduction to STATA

The Department of Economics organized a statistical workshop *An Introduction to Stata* on September 18, 2015 to provide its students an insight into the use of available statistical software as well as to improve their efficiency of research work and analysis. Mr. Jay Dev Dubey, Consultant with Research and Information System for Developing Countries (RIS) and Mr. Kapil Patidar, Research Officer, Department of Economic Affairs, Ministry of Finance, Government of India, were invited to conduct the workshop. It commenced with lecture on prospects of STATA by each resource person. The speakers interacted with the students and explained to them the basics of data handling using the software "STATA". The session was conducted in the computer lab of the college with around 60 students participating in the workshop.

Annual Report highlights of STATA and SPSS workshop (Annual Report 2015-16 page No. 33)

Department of Economics: The Department of Economics organized a statistical workshop An Introduction to Stata on September 18, 2015 to provide its students an insight into the use of available statistical softwares as well as to improve their efficiency of research work and analysis. Mr. Jay Dev Dubey, Consultant with Research and Information System for Developing Countries (RIS) and Mr. Kapil Patidar, Research Officer, Department of Economic Affairs, Ministry of Finance, Government of India, were invited to conduct the workshop. It commenced with lecture on prospects of STATA by each resource person. The lectures were followed by practical sessions in computer labs.

Lab Skill Training Workshop for Laboratory Assistants/Attendants in the Chemical and

(Annual Report
2016-17, Page No.8)

Poster of the workshop:



Organizes

Lab Skill Training Workshop for Laboratory Assistants/Attendants in the Chemical and life Sciences

31st May – 3rd June , 2016

ORGANIZING SECRETARY Dr. Shashi Nijhawan Principal

CONVENERS

Dr. Jayita Thakur
Dr. Pratima Sardar
Dr. Vandana Katoch
Dr. Deepika Yadav
(Dept. of Biotany)
(Dept. Chemistry)
(Dept. Zoology)

Poster of "Lab Skill Training program for laboratory Assistant/Attendants in Chemical and Life Sciences" 31st May to 3rd June 2016:



Report "Lab Skill Training program for laboratory Assistant/Attendants in Chemical and Life Sciences" 31st May to 3rd June 2016

To enhance the skills of laboratory staff members, a "Lab Skill Training program for laboratory Assistant/Attendants in Chemical and Life Sciences" was organised at Shivaji College, University of Delhi from 31st May to 3rd June, 2016 in collaboration with other science departments. As the holistic development of college depends on not only the contribution by, and achievements of the teaching staff; it also depends significantly on the contribution and expertise of the non-teaching staff, the training was conducted to update the knowledge and hone the skills of the laboratory staff.

List of Participants:

S. No.	NAME	DESIGNATION	DEPARTMENT	COLLEGE	
1.	Mr. Ram Niwas	Laboratory Assistant	Chemistry		
2.	Mr. Rajpal	Laboratoria		Acharya	
	Singh	Laboratory Assistant	Chemistry	Narendra Dev College	
3.	Ms. Lata	Laboratory	Biology		I A I A I A
		Attendant	piology	Bhagini Nivedita	late
4.	Mr. Labh Singh	Laboratory Attendant	Chemistry	College	Late lablesingle
5.	Mr. Vikas Rana	Laboratory Assistant	Chemistry		equaling

7	N. W.	Accordance			
7.	Mr. Vijya Kuma	Laboratory Assistant	Botany	Miranda House	A Trans
8.	Mr. Uday Kumar Chaudhary	MTS Laboratory	Zoology	College	Ichy.
9.	Mr. Sonu Giri	.MTS Laboratory	Botany		Songt.
10.	Mr. S. C. Patra	Laboratory Assistant	Chemistry	Motilal Nehru	SAB
11.	Mr. Sarommi Prakash	Laboratory Attendant	Chemistry	College	21m
12.	Mr. Surender Sharma	Lab. Attendant	Chemistry	Kirori Mal College	Slaring
13.	Mr. Jagtar Singh	Lab. Attendant	Zoology	College	18
14.	Mr. Jaswant	Laboratory Assistant	Zoology		4000
	Singh	addoratory Assistant	Zoology	Khalsa College	
15.	Mrs. Amarjit Kaur	Laboratory Assistant	Zoology	III SANTON	
16.	Mr. Prempal Singh	Technical Assistant	Biochemistry	Shaheed Rajguru	
17. Mr. Satender Singh Rawat		Laboratory Assistant	Biology	College of Applied Sciences for Women	
18.	Mr. Rishi Kumar	Laboratory Assistant	Biomedical		
			Science		
19.	Mr. Prabhat Kumar	Laboratory Assistant	Biomedical Science	The same of	
20.	Mr. Ashok Rai	Laboratory Assistant	Instrumentation		
21.	Mr. Iqbal Qasin	Laboratory Attendant	Zoology	Zakir Hussain College	
22.	Mr. Suhail Ahmed	Laboratory Attendant	Zoology		
23.	Mr. Mohd. Waseem	Laboratory Attendant	Chemistry	1	
24. Mr. Mohd. Asjad Tasleem		Mr. Mohd. Laboratory Asjad Attendant			Motol Abod
25.	Mr. Mohd. Afzal	Laboratory Assistant	Botany		motol Abod
26.	Mr. Mohd. Shamim	Laboratory Assistant	Botany		Molekhaum

21.	Parween Kr.	Laboratory Attd.	Chemistry	Shivaji Glige 1.1km
28.	Swesh Sheh	do	Chemistry	-do- 202
29.	Sandeep	do	Chemistry	-do- And
30.	Davinder Rai	_ do	Chemistry	do
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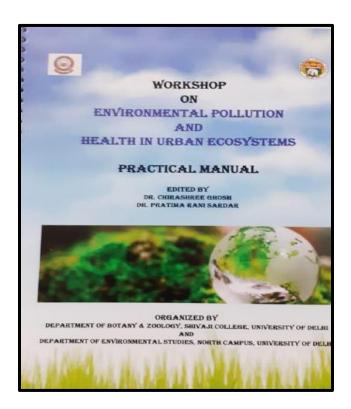
Photograph of "Lab Skill Training program for laboratory Assistant/Attendants in Chemical and Life Sciences"

Annual Report highlights of "Lab Skill Training program for laboratory Assistant/Attendants in Chemical and Life Sciences" (Annual Report 2016-17, Page No.8)

The departments of Sciences organized a "Labskill Workshop for the laboratory staff of Chemical and Life Sciences" from 31st May - 3rd June 2016, to keep the laboratory staff of the Science departments abreast with various aspects of laboratory maintenance.

III) Workshop on Environmental Pollution and Health in Urban Ecosystems (EPHUE-2016) (Annual Report 2015-16 Page No. 6)

Manual of "Workshop on Environmental Pollution and Health in Urban Ecosystems (EPHUE-2016):



Report of Workshop on Environmental Pollution and Health in Urban Ecosystems (EPHUE-2016)

Workshop on Environmental Pollution and Health in Urban Ecosystems (EPHUE-2016) held at Department of Environmental Studies, North Campus, New Delhi, on 23rd June 2016 organized by Department of Botany & Zoology, Shivaji College, in collaboration with Department of Environmental Studies, University of Delhi

Speakers:

- i. Dr. B.C. Sabata, Dept. of Environment, Government of NCT of Delhi.
- ii. Dr. Faiyaz Ahmad Khudsar, Yamuna Biodiversity Park.
- iii. Dr. Anshu Sharma, Seeds Network,

iv. Dr. Mayank Tiwari, Department of History, Satyawati College

List of Participants: 34 (across the India faculties and Research Scholars):

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-		EPH	UE - 2	3 June	2016		
1		Lis	ts of Pa	articipa	nts		
	Name	College	Dept.	Profession	Draft	Signature	Union Bank.
01		Shivaji	Zoo	Teacher	Yes		277929
.3	and the same of th	Shivaji	Bio Chem.	Teacher	RTGS		
4		Shivaji	Botany	Teacher	Yes		potreceine
5		Shivaji	Botany	Teacher Teacher	Yes	Dr. Slastin	(176)
6		Miranda	Botany	Teacher	Yes.	VA Many	322298
1	Sinha Roy			- Cacilei		Centrator	489640
X 1	Dr. Seema Talwar	Shivaji	Botany	Teacher	405	Stalwart	931906
8	Anuj Kumar Garg	SSV College,	Chemistry	Hon.	Yes	Din	443421
9	Dr. Courses Charme	Hapur	FVC	Lecturer	Na	Gaoras Rome	
10	Dr. Gaurav Sharma Nimita Kant	ZHC Shivaji	EVS	Asst. Prof Teacher	Yes (Jacobar LOME	440256
111		DDU	Zoology			(Hamad)	Q1760
112	THE RESIDENCE OF THE PARTY OF T	Miranda	Zoology	Teacher Teacher	Yes	Misto.	673913
13		DDU	Zoology	Teacher	Yes	- 100	613712
1	Yadav	000	Botany.	reaction	.63	Azhih	933616
14	Prabhat Kumar 400	IP Univ.	EVS	Research Scholar	Yes	Transder.	933617
15	Dr. Kiran Bamel ,	Shivaji	BUTARY	Teacher	RTGS	KuriBant	Q1762
16	Sandeep Kausheek	Ramjas		Teacher	Yes	Sand up lash	477080
17	Choudhary 400	KDept. of Boatny	Botany	Research scholar	Yes	Ashr	477079
18	Dr. Vijay Kumar	Shivaji	Botany	Teacher	Yes	Marykimor	
19	Dr. Suresh Kumar	Ramjas	Botany	Teacher	Yes	1 Company	14835477
20	Dr. Saloni Bahri	Miranda	Botany	Teacher	Yes	for Senia	489641
21	Shailendra Kumar	Dept. of Env. Studies	EVS	Research Scholar	Yes	2nd	067282
22	Akshay Shankar	Dept. of	P. 10	Research	yes	Atehay shame	~ 067283
	4001-	Env. Studies	Evs	Scholar	165		001283
23	Guncha Sharma	Dept. of Env. Studies	EVS	Research Scholar	Yes	Gume hies	067284
24	Arun Kr. Yadav	Dept. of Env. Studies	EVS.	Research Scholar	Yes.	1	067 285
25	Dr. Pallavi Saxena	JNU		Young Scientist	Yes	fint	202262
6	Neena Wadhera	Shinas Glax	Biochem!	As. (cheque	Yes	Nuodato6	2014 00 08 590
200	Arvind Tiwary	Jamia	Modern	Research			
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79	Dr. Anita Pani	Dayal Singh	Batany	Teacher	Yes	Anta Plani	三部的
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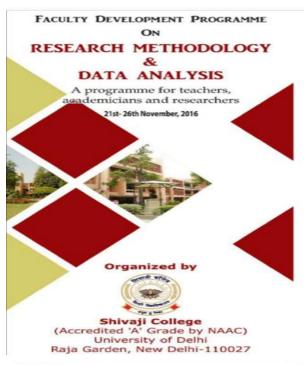
Photograph of Workshop on Environmental Pollution and Health in Urban Ecosystems (EPHUE-2016)

Annual Report highlights of Workshop on Environmental Pollution and Health in Urban Ecosystems (EPHUE-2016) (Annual Report 2015-16 Page No. 6)

Department of Botany organized a workshop on "Environmental Pollution and Health in Urban Ecosystems (EPHUE-2016)", in collaboration with Department of Zoology, Shivaji College and Department of Environmental Studies, North Campus, University of Delhi, 23rd June 2016.

IV) Faculty Development programme on Research Methodology and data analysis (Annual Report 2016-17 page No. 7)

Brochure of Faculty Development Program on "Research Methodology and Data Analysis"



A well-known name in University of Delhi, Shivaji College is a co-educational institution that imparts education in various subjects at both undergraduate and post-graduate levels. The College, founded in 1961, runs under the trusteeship of Delhi Administration

The mission of Shivaji College is aptly reflected in the college motto "Amritam tu vidya* (Education is eternal or a never ending process). Rigorous pursuit of academic excellence, emphasis on all round development of students, illustrious faculty and well maintained green campus are some of the key features of the College which have contributed towards earning an 'A' grade NAAC accreditation.

We strive hard to provide an environment conducive to overall growth of an individual and enriched learning experience. The college frequently organises various academic programs on contemporary subjects and latest technology for the development of students, staff and faculty.

Strategically located at Raja Garden on ring road, the College has close proximity to prime shopping centres, metro station and bus stops. It is also well connected to Delhi airport and railway station.

Patron Dr. Shashi Nijhawan Principal Shivaji College

Associate Professor Department of Commerci

Suman Kharbanda

registration shall be made on "first come, first serve" basis. Please note that no refund of fees shall be made later on.

- Any correspondence regarding participation can be done through email only at shivaji.commerce@gmail.com.
- Participants are required to bring their own laptop for practical sessions.
- The participation fee is Rs.4000 (Rs four thousand only) which includes course kit, lunch, tea, snacks and professional fees.
- The College shall assist outstation participants in arranging accommodation in nearby hotels/ guesthouses on payment basis

- Cheque/draft in favour of "THE PRINCIPAL, SHIVAJI COLLEGE" payable at Delhi
- Online transfer (NEFT) to

PRINCIPAL SHIVAJI COLLEGE,

A/c No.: 3222985619 Central Bank of India. Shivaji College Branch. IFSC Code: CBIN0283942.

CERTIFICATE OF PARTICIPATION

A certificate of participation shall be given to participants on successful completion of the program.

With increasing integration of industry and education in modern times, there has been a continuous emphasis on quantitative research and its application. Research scholars and academicians, therefore, need to acquaint themselves with new tools and techniques that help them understand data, scientifically analyse it and develop the art of drawing meaningful conclusions or results. The six day workshop on "Research Methodology and Data Analysis" at Shivaji College aims to address this need and provide knowledge of statistical techniques and sophisticated software to researchers and academicians in Economics, Finance and Management

Following topics shall be covered

(Detailed program schedule shall be sent to registered participants)

- Questionnaire Designing Scale of Measurement
- Data Preparation
- Data Analysis
 - Basic Statistics

 - Hypothesis Testing Parametric and Non-parametric test ANOVA
- Factor Analysis
- Multiple Discriminant Analysis
- Multiple Regression Analysis
- Logit and Probit

Poster of Faculty Development programme on Research Methodology and data analysis



Report on Faculty Development Program on "Research Methodology and Data Analysis"

The Department of Commerce, Shivaji College organised a week long National Level Faculty Development Program on "Research Methodology and Data Analysis" from November 21 to 27, 2016. This rigorous academic workshop was attended by academicians and research scholars from fields of Commerce, Economics, Management and humanities. There was a diverse mix of participants not just from University of Delhi but from across India including IIM Kashipur, Kashmir University, Sonepat, JNU and IP University.

Chief guests, Professor Muneesh Kumar, (Dean Faculty of Commerce and Business Studies and Head Department of Financial Studies) and Professor Kavita Sharma (Head, Department of Commerce, University of Delhi) graced the inaugural session with their presence. Professor C P Gupta, department of Financial Studies, the main resource person in this FDP was also present on this occasion.

They were extended a very warm welcome by the Principal Dr. Shashi Nijhawan and FDP Coordinator, Suman Kharbanda. The guests gave very thought provoking ideas to the participants and expressed that such workshops are very vital for the growth of academic fraternity. Their motivating words and best wishes set the ball rolling for this week long academic workshop.

While the main focus of the work shop was on data analysis and econometric techniques using softwares like SPSs and E views, the participants were also given exposure on subjects like orienting oneself to research and taking on the path ahead, use of E-resources and creating Bibliography using latest softwares.

A galaxy of experts and professors were resource persons for this FDP. These included Prof. C P Gupta, department of Financial Studies, Professor Y P Gupta, Professor Surender Kumar, Department of Economics, Professor Pankaj Sinha, faculty of Management studies, University of Delhi, Professor Kaushik from National Institute from Financial Management, Faridabad and Dr. Tariq Ashraf, Deputy librarian, south Campus.

The participants derived a great value from this rigorous academic program. They attended the sessions with unbounded enthusiasm every day from 9.30 am to 6 pm. and always had lot of questions to ask, especially from Prof C P Gupta, who answered these very patiently. His sole objective was to satisfy the participants' quest for knowledge!

The FDP ended with a vibrant Valedictory session in which professor Suresh Aggarwal Dean Research (Prof. & Head, Deptt. Of Business Economics, Chairman, Board of Research Studies and Dean, Faculty of Applied Social Science and Humanities) and Professor Muneesh Kumar, addressed the august gathering, blessed the participants and awarded them with certificates.

Sharing their experiences and feedback on the FDP, the participants were highly appreciative of the arrangements of the program and expressed that they not only gathered immense knowledge on the discipline but also learned from the mentors the art of being good teachers in class. The FDP had an additional benefit in the form of networking and bonding amongst participants, which certainly leads to creation of discussion platforms and fertilization of ideas across academia.

List of Participants:

	Date of			Institution/College/	}		Fee	
S.no.	Registration	Name	Designation	University	E-Mail	Mobile No.	Payment	Fee payment Details
		Dr. Chanchal	Associate	Janki Devi Memorial	chanchalchopra59@yahoo.c		Online	SBIN416287667586
1	10/13/2016	Chopra		College	o.in	9811669670	transaction	NEFT
				Department of				
				Humanities & Social				
				Sciences,MNNIT			Online	
2	10/17/2016	Iftaqar Ahmad	Research Scholar	Allahabad	iftaqar.ahmed@gmail.com	9651852008	transaction	VIJBH16291080523
			Assistant	Shri Ram College of	Sawariya.poonam@yahoo.c	9716701221,	Online	
3	10/20/2016	Poonam	professor	commerce du	om	9911676169	transaction	IRA9173151

				Annintont		ů 		Online	+
				Assistant				Online	
	4 1	.0/21/2016	Yashpal	Professor	SRCC, DU	yash0772@yahoo.com	7827557401	transaction	629518647623
								Online	
	5 1	.0/21/2016	Yogesh garg	Guest lecturer	Delhi University	gargyogesh1909@gmail.com	9891839139	transaction	1121428
				Assistant	Shri ram college of	saritakaushal.gautam@gmail.		Online	
	6 1	0/22/2016	Sarita gautam	professor	commerce	com	9650492133	transaction	RRNO. 629518647684
_			SURENDER	Assistant	PGDAV College (M),				(
	7 1	0/20/2016		Professor	D.U.	sss727@gmail.com	9891794727	Chaona	52603 Central bank
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					Sciences Motilal				
					Nehru National				
					Institute of	nikhilsinghyadav87@gmail.c		Online	
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					Indraprastha College	1			
				Assistant	For Women,			Online	
	9 1	0202016	Namita Mathur	Professor	University of Delhi	namitamathur@hotmail.com	9891358939		P16102959431354
	9 1	0/29/2010	Arif Hussain		University of Delm	namitamathur@notmaii.com	9991333939	transaction	P10102939431334
				Assistant					
	10 1	.0/24/2016	Haidary	Professor	ZHDC (M), D.U.	arifhh99@gmail.com	8860431106	Cheque	945174 (
				Assistant					
	11 1	0/31/2016	Urvashi Sahitya	Professor	Shivaji College	Urvashisahitya@gmail.com	9891088599	Cheque	
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		M	EGHNA	ASSISTANT	MEMORIAL			Online	
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					Faculty of				
					Management Studies,	nehabhatnagar07@yahoo.co		Online	
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				Assistant					
16	11/:		naru Goyal		SRCC, DU	charu.goyal89@gmail.com	999997709		95046
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17	11/4	4/2016 B1	navnani	professor	University of Delhi	m	981104/34	0 transaction	63091989392
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					Department of Commerce. Delhi			Online	
18	10/1	1/2016 0-	rtaj Hussain		School of Economics	sartaj.hussain@gmail.com	000666455	9 transaction	87273477
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					Department of				
					Commerce, Delhi			Online	
19	10/14	1/2016 K1	halid Ul Islam		School of Economics	khalidulislam3@gmail.com	971158454	1	87275821
19	10/1-	2010 K	and Orrani		Shriram college of	Months and Market Street	7/1130434	Online	0/2/3021
20	11/	7/2016 N	eetu Dhayal		commerce	dhayal.neetu15@gmail.com	965444869		UTRSBI416312874239
20		2020			The NorthCap		222111002	Online	
21	11/	7/2016 M	Ianu Jain		university	manu.jain1105@gmail.com	981195630		107562369
					The NorthCap	mahima.anand94@gmail.co		Online	13.532505
22	11/	7/2016 M	ahima Anand		university	m	971684758		107563101
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					Associate	Shaheed Bhagat Singh				
				Dr. Poonam	Professor in		poonamsharma299@gmail.c			
	23	11/8/2	$\overline{}$	Sharma	Geography	Delhi	om	98181043	94 Cheque	12912
				Harmanpreet	Assistant	Shivaji College,	kaur.harmanpreet01@gmail.			
	24	11/7/2	016 I	Kaur	Professor		com	96507484	01 Cheque	020882
					Assistant	Shivaji College,	shweta.shweta.gautam@gma			
	25	11/10/2	016 8	Shweta	Professor	University of Delhi	il.com	98998770	92 Cheque	15747
					Assistant	Shivaji College,	chhavisharmarg@yahoo.co.i			
	26	11/10/2	016 I	Dr.chhavi sharn		University of Delhi	<u>n</u>	98714983	75 Cheque	33031
					Assistant	Shivaji College,	monikasharma0009@gmail.c			
	27	11/10/2	016	Monika	Professor	University of Delhi	om	97171714	99 Cheque	16764
					Assistant	Shivaji College,	rajesh.commerce@yahoo.co.		Online	
	28	11/10/2	016 F	Rajesh kumar	Professor		in	99110016	13 transaction	137901078
					Assistant	Shivaji College,				
	29	11/10/2	016	Vanitha chawla	Professor	University of Delhi	vanitha_2182@yahoo.co.in	98990300	45 Cheque	29225
					Assistant	Shivaji College,				
	30		I	ti dandona	Professor	University of Delhi	itisaurabh@yahoo.co.in			
					Assistant	Shivaji College,	rajindersingh.du@rediffmail.			
	31		I	Dr Rajinder Sing	h Professor	University of Delhi	<u>com</u>	97113755	78 cheque	028570
						Delhi University,				
	32	11/13/2	016	Aparna Jindal	Research Assist		jindal.aparna92@gmail.com	<u>98997149</u>	50 NEFT	N318160206272105
					Assistant	Shivaji College,	dimple.manisha15@gmail.co			
	33		1	Manisha Rani	Professor	University of Delhi	<u>m</u>	85869244	33 Cheque	000043
					Assistant				Online	
	34	11/14/2	016 E	Ekta Kharbanda	Professor	Maharaja Surajmal Ins	ekta.kharbanda1989@gmail.c	om	transaction	UTR: 631918230742
					Assistant				Online	
	35	11/14/2	016 F	Preeti Bedi	Professor		preetibedi90@gmail.com	88605539	49 transaction	UTR: 631922246967
			1	Manab		IIM, Kashipur.			Online	
	36	11/16/2	016	Chakarborty	Senior Fellow	Uttrakhand	manabc@gmail.com	91-956010770	0 transaction	IMPS-632119173634
37	1	1/17/2016	Mađ	hulata	Research Schola	BPSMV, KHANPUR	 madhulata.bmiet@gmail.com	9416538148	transaction	16322285008 1
									Online	
38	1	1/17/2016	Ivoti		Racaarch Schola	BDGWA KHAMDUB	jyotigulia1900@gmail.com	8816892566	transaction	632216484090]
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39		1/21/2016		-	Assistant Profes				Cheque	032531
40	1	1/21/2016	Rach	ına mahalwala	associate profes	Bhagini Nivedita Colle	rachna21097@yahoo.co.in	9818461760	Cheque	
41	1	1/21/2016	Maď	hu Bala	associate profes	Bhagini Nivedita Colle	madhubala11100@yahoo.com	9810584769	Cheque	057428
42	1	1/21/2016	Man	gal cheming		_	mangal.cherring@gmail.com	9459313871	_	977372

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1	10	0/26/2016	Dr.	Anuja Soni	Assistant Profes	Deen Dyal Upadhyay	30.anuja@gmail.com		NEFT	AXMB163004107664
2	10	0/27/2016	Suja	ita Khatri	Assistant Profes	Deen Dyal Upadhyay	khatri.sujata@gmail.com		NEFT	AXMB163014393888
3	1	1/5/2016	Shw	eta Wadhera	Asst. Professor	Deen Dayal Upadhya	shweta.du@gmail.com	-9971188138	Online trans	Transaction Reference Num
					Assistant	I.P. College for	rekha_kashyap16@rediffm			
4	1	11/7/2016	Rek	ha Kumari	Professor	Women, D.U.	ail.com	9873128699	Cheque	602952
					Assistant	Shaheed Bhagat			Online	
9	10	0/20/2016	Dr.	Ashima	Professor	Singh College, D.U.	phjashi1@gmail.com	9953626949	transaction	IMP500013797500 SBI
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	2 8	Sujata Kha	itri		2012010004190					
				MICR. 11002	22167					
				IFC. ORBC0	105201					
	3 F	Rekha Kuma	ari	Account No. 84	58101004871					
				IFSC Code:- CN						
				Canara Bank, I.P	.College for women,					

Shannath Marg, Delhi-54.



Photograph of Faculty Development Program on "Research Methodology and Data Analysis"

Annual Report highlights of Faculty Development Program on "Research Methodology and Data Analysis" (Annual Report 2016-17 page No. 7)

Department of Commerce organized a week long National Level Faculty Development Programme on "Research Methodology and Data Analysis", November 21st - 27th, 2016.

V) Interdisciplinary workshop on Sharing Science Rising together (Annual Report 2016-17 page No. 25)

Poster of Interdisciplinary workshop on Sharing Science Rising together



Report Sharing Science Rising together on 24th September and 1st October, 2016

Sharing Science Rising together an interdisciplinary workshop for science faculty organized by Shivaji College on 24th September and 1st October, 2016. All science department faculties enthusiastically participated in this exchange of knowledge.



Photographs of Interdisciplinary workshop on Sharing Science Rising

Annual Report highlights of Interdisciplinary workshop on Sharing Science Rising (Annual Report 2016-17 page No. 25)

Sharing Science, Rising Together - An Interdisciplinary Workshop for the Faculty of Science Departments of Shivaji College" organised on 24th September and 1st October, 2016

VI) Lab Skill Training Workshop (Annual Report 2017-18 Page No.9)

Report: To enhance the skills of laboratory staff members, a Lab Skill Training Workshop for Laboratory Attendants/Assistants of Chemical and Life Sciences" under Internal Quality Assurance Cell (IQAC) was organised at Shivaji College, University of Delhi from July 10-14, 2017 in collaboration with other science departments. As the holistic development of college depends on not only the contribution by, and achievements of the teaching staff; it also depends significantly on the contribution and expertise of the non-teaching staff, the training was conducted to update the knowledge and hone the skills of the laboratory staff.

Lab Skill Training Workshop

Shivaji College

NAAC Accredited 'A' Grade (University Of Delhi)

Department of Botany

Lab Skill Training Workshop for Laboratory Assistants/ Attendants in the Chemical and Life Sciences

10³՝ July- 14¹⁶ July, 2017

Organizing secretary Dr. Shoshi Hijhowan Principal

Conveners

Dr. V. PrabhavathijDept. of Botany)

Dr. Somta Singh (Dept. Brochemidry)

Ms. Mimita Kanc (Dept. Zeology)

Dr. Mangula Singh (Dept. Chemistry)

Dr. Rakesh Yadav (Dept. Computer Science)

Resource Person
Dr. Ancradha Mail
Dr. Anka Kapur
Dr. Vijey Kumer
Dr. Pratirva Rani Sardar
Dr. Prabhavatni, V
Dr. Smca Tripati
Dr. Kiran Bamel
Dr. Minha Yadas
Dr. Seema Talwar

Dr. Anurag Maurya

List of participants of Lab Skill Workshop 2017

S.No.	Name	College	Department	Designation
1	Mr. Vinod Prajapati	Shivaji College	Zoology	MTS Laboratory
2	Mr. Ramesh Solanki	Deshbandhu College	Department of Chemistry	Lab Assistant
3	Mr. Subhash Chander	Deshbandhu College	Department of Biochemistry	Lab Assistant
4	Mr. Mahender Kumar	Deshbandhu College	Department of Zoology	MTS Laboratory

	I	l W	No.	<u> </u>
5	Ms. Aarti Gulati	Deshbandhu College	Department of Zoology	MTS Laboratory
6	Mr. Anil Kumar	Daulat Ram College	Department of Zoology	Lab Attendant
7	Mr. Chirangi Lal	Daulat Ram College	Department of Zoology	Lab Assistant
8	Mr. Anil Kumar	Shivaji College	Department of Botany	Lab. Attendant
9	Ms. N. Kamala Kanta Singha	Institute of Home Economics	Department of Biochemistry	Lab Attendant
10	Mr. Dharmesh	Lady Irwin College	Zoology/Life Sciences	Lab Attendant
11	Ms. Usha Dovi Yadav	Lady Irwin College	Zoology/Life Sciences	Lab Attendant
12	Mr. Kapileshwar Sah	Lady Irwin College		Lab Attendant
13	Mr. Jasbir Singh	Maitreyi College	Botany	MTS Laboratory
14	Mr. Anil Chhillar	Maitreyi College	Zoology	LTS Laboratory
15	Mr. Aman Kumar	Maitreyi College	Chemistry	MTS Laboratory
16	Mr. Jitandra Kumar	Institute of Home Economics	Department of Biochemistry	Lab. Assistant
17	Mr. Shes Ram	Sri Aurobindo College	Department of Zoology	Lab Assistant
18	Mr. Naresh Giri	Shaheed Rajguru College of Applied Sciences for Women	Department of Biomedical Sciences	MTS Laboratory
19	Mr. Rohit Kumar	Shaheed Rajguru College of Applied Sciences for Women	Department of Chemistry	MTS Laboratory
20	Mr. Ram Karan	Kirori Mal College	Department of Chemistry	Lab Attendant
22	Mr. Mahender Singh Manral	Kirori Mal College	Department of Chemistry	Lab Assistant
23	Mr. Ramashankar Sah	Shivaji College	Department of Zoology	Lab Assistant
24	Mr. D. K. Malik	Sri Aurobindo College	Department of Chemistry	Lab Assistant
25	Mr. Amit Kumar Sharma	Shivaji College	Department of Zoology	MTS Laboratory

26.	Mr. Pavindra Kumar	Vallabhbhai Patel Chest Institute	Pathology	Lab. Attendant
27.	Mr. Labh Singh	Bhagini Nivedita College	Department of Chemistry	Lab. Attendant
28.	Mr. Avinash Kalyan	Shivaji College	Department of Botany	
29.	Mr. Anil Kumar	Shivaji College	Department of Botany	
30.	Mr. Raj Kumar	Shivaji College	Department of Zoology	Lab. Attendant



Photographs of Lab Skill Training Workshop

Annual Report highlights of Lab Skill Training Workshop

Departments of Sciences Organized "3 rd Lab Skill Training Workshop for Laboratory Attendants/Assistants of Chemical and Life Sciences" under Internal Quality Assurance Cell (IQAC) from July 10-14, 2017 in Shivaji College, University of Delhi.

VII) Two-day Faculty Development Program on the topic of "CBCS Pathyakram: adhyayan ke sandarbh evam paddhtiyan" (Annual Report 2017-18 page No. 12)

Poster of Two-day Faculty Development Program on the topic of "CBCS Pathyakram: adhyayan ke sandarbh evam paddhtiyan



Report:

Two-day Faculty Development Program organized on the topic of "CBCS Pathyakram: adhyayan ke sandarbh evam paddhtiyan" on January 19-20, 2018. Eminent speakers like Prof. Ramesh Gautam, Prof. Sudhish Pachauri, Smt. Nasira Sharma, Prof. Bharat Singh, Prof. P.C Tondon, Prof. Ramesh Chandra Mishra, Prof. Sudha Singh, Prof. Satyaketu Sankrit, and Dr. Ajay Navriya shared their views with faculty members of different colleges.

Certificate of Two-day Faculty Development Program on the topic of "CBCS Pathyakram: adhyayan ke sandarbh evam paddhtiyan

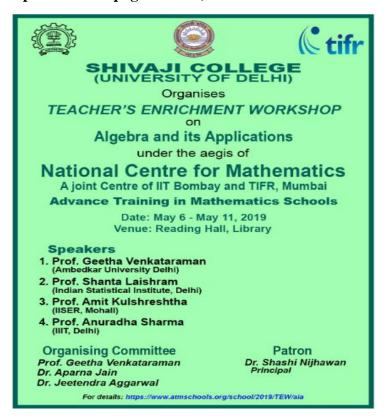
	शिवाजी कॉलेज NAAC द्वारा प बेती वाच्या प्राप्त (दिन्ती विश्वीयात्य) हिंदी विभाग	Ì
	संकाय संवर्धन कार्यक्रम	
(Fac	ulty Development Program) दिनॉक: 19-20 जनवरी 2018	
	प्रमाण- पत्र	
प्रमाणित किया जाता है कि		
अध्ययन के संदर्भ एवं पहातियाँ	दिषयक हो दिवसीय कार्यक्रम में सक्तिय रूप से भाग तिया ।	
डॉ॰ वीरेन्द्र भारद्वाल प्रभारी, हिन्दी विधान	डॉ॰ गमि निसायन प्राचार्य	

Annual Report highlights of Two-day Faculty Development Program on the topic of "CBCS Pathyakram: adhyayan ke sandarbh evam paddhtiyan (Annual Report 2017-18 page No. 12)

Department of hindi organized two-day faculty development: Program on the topic of "CBCS Pathyakram: adhyayan ke sandarbh evam paddhtiyan" on January 19-20, 2018. Eminent speakers like Prof. Ramesh Gautam, Prof. Sudhish Pachauri, Smt. Nasira Sharma, Prof. Bharat Singh, Prof. P.C Tondon, Prof. Ramesh Chandra Mishra, Prof. Sudha Singh, Prof. Satyaketu Sankrit, and Dr. Ajay Navriya shared their views with faculty members of different colleges.

VIII) Teachers Enrichment Workshop on Algebra and its Applications

(Annual Report 2019-20 page No. 137)



List of Participants:

S.No.	Name of the Participant Position		Affiliation
1			Indraprastha College for Women, University of Delhi
2	Ms. Apeksha	Assistant Professor	Miranda House, University of Delhi
3	Ms. Priyanka Tomer	Assistant Professor	SGSITS, Indore
4	Dr Dimple Singh	Assistant Professor	Amity University, Manesar, Gurugram
5	Dr. Jagbir Singh	Assistant Professor	Department of Mathematics, Maharshi Dayanand University, Rohtak
6	Mr. Gaurav Tyagi	Assistant Professor	Mahamana Malviya Degree College, Baghpat
7	Dr. Manish Garg	Assistant Professor	The LNMIIT, Jaipur

	 	1	
8	Dr. Deepti Kaur	Assistant Professor	Maitreyi College, University of Delhi
9	Ms. Teena Kohli	Assistant Professor	Janki Devi Memorial College, University of Delhi
10	Mr Ashesh Kumar Jharwal	Assistant Professor	Shivaji College,University of Delhi
11	Ms. Seema Gupta	Assistant Professor	Bhagini Nivedita College, University of Delhi
12	Dr. Kavita Devi	Assistant Professor	Zakir Husain Delhi College, University of Delhi
13	Mr. Vinod Kumar	Assistant Professor	Govt. College for Women, Karnal, Haryana
14	Dr. Sushil Yadav	Assistant Professor	Maharaja Agrasen College, University of Delhi
15	Ms. Sonia	Assistant Professor	Janki Devi Memorial College, University of Delhi
16	Dr. Bhavneet Kaur	Assistant Professor	Lady Shri Ram College for Women,University of Delhi
17	Dr. Shilpi Verma	Assistant Professor	Shivaji College, University of Delhi
18	Dr. Megha Agarwal	Assistant Professor	Ramanujan College, University of Delhi
19	Dr. Vandana	Assistant Professor	Shivaji College, University of Delhi
20	Dr. Sarika Goyal	Assistant Professor	Bennett University Greater Noida
21	Dr. Nisha Gupta	Assistant Professor	Lakshmibai College, University of Delhi
22	Dr Neetu Rani	Assistant Professor	Shivaji College, University of Delhi
23	Dr. Jaspreet Kaur	Assistant Professor	St. Stephen's College, University of Delhi
24	Mr. Jitendra Singh	Assistant Professor	Shivaji College, University of Delhi
25	Ms Bhawna Bansal Gupta	Assistant Professor	Miranda House, University of Delhi
26	Mr Umesh Chand	Assistant Professor	MS college, Saharanpur
27	Mr. Nitesh Kumar	Assistant Professor	Shivaji College, University of Delhi
28	Dr. Ruchi Arora	Assistant Professor	SGTB Khalsa College, University of Delhi
29	Dr. Apama Vyas	Associate Professor	Manav Rachna University, Faridabad

30	Mr. Mukesh Kumar	Assistant Professor	Shivaji College, University of Delhi
31	Dr. Dinesh Kumar	Assistant Professor	Deen Dayal Upadhyaya College, University of Delhi
32	Ms. Krishma Babbar	Assistant Professor	Lady Shri Ram College for Women, University of Delhi
33	Dr. Arti Sharma	Assistant Professor	Janki Devi Memorial College, University of Delhi
34	Ms. Monika Yadav	Research Scholar	Indraprastha Institute of Information Technology Delhi
35	Mr. Sandeep Sharma	Research Scholar	Indraprastha Institute of Information Technology Delhi
36	Ms. Akansha Arora	Research Scholar	Indraprastha Institute of Information Technology, Delhi
37	Mr Harshit Mathur	Research Scholar	Department of Mathematics, University of Delhi
38	Dr. Santosh Kaushik	Assistant Professor	Bhagini Nivedita College, University of Delhi
39	Ms. Soni	Assistant Professor	Shivaji College, University of Delhi
40	Mr. Suresh Kumar Yadav	Assistant Professor	Ramjas College, University of Delhi
41	Dr. Chirag Garg	Assistant Professor	Deshbandu College, University of Delhi
42	Mr. Jayanta Biswas	Assistant Professor	Dyal Singh College, University of Delhi



Photographs of Teachers Enrichment Workshop on Algebra and its Applications

Annual Report highlights of Teachers Enrichment Workshop on Algebra and its **Applications (Annual Report 2019-20 page No. 137)**

Teachers Enrichment Workshop on "Algebra & its applications" held at "Shivaji College, University of Delhi from May 06-11, 2019, organised by National Center for Mathematics.

IX) Intra-college Laboratory Skill Training Program (Annual Report 2019-20, Page No. 15)

Poster of Intra-college Laboratory Skill Training Program



Report: Under the DBT sponsored Star College Scheme, Department of Biochemistry along with Department of Botany, Chemistry and Zoology successfully organized Laboratory Skill Training Programme from May 20-24, 2019.

Department of Biochemistry conducted the training programme under the supervision of Dr. Rashmi Wardhan, Dr. Darshan Malik, Dr. Jayita Thakur, Dr. Renu Baweja, Dr. Sunita Singh and Ms. Usha Yadav on the following major topics:

• Sterilization Techniques: Autoclave, Operating the laminar hood. Hands on practice for operating oven, incubator & microwave for laboratory work.

This practice familiarized them with the handling, working and maintenance of basic Biochemistry laboratory instruments.

- Dialysis and Ion exchange chromatography.
- Preparation of gels for electrophoresis.

Electrophoresis and chromatography are the two major routinely practiced techniques.

This exercise helped them in better understanding of the two and appreciate their importance. This five day training program was devised with the objective to impart specialized laboratory skills through hands on training to the assistants and attendants of biological and chemical laboratories. Through this program the laboratory assistants/attendants would be better equipped to carry out various lab based duties efficiently.

The training program ensured better understanding of various sterilization techniques, handling of common laboratory equipments, dialysis, preparation of electrophoretic gels. Handling media and pouring plates for microbiological work, making chemicals for various experiments and maintaining museum.

Preparation of stains, microscopy applications and maintenance, to measure and deliver accurate volume of liquid using pipettes and micropipettes, slide preparation and centrifugation handling. Handling chemicals, preparation of solutions (with defined normality and molarity) and to maintain apparatus and instruments properly.

List of Participants:

	The same	May 22 Day Attendan	y 3	
S. No	. Name	Department	Signa Morning	ture Evening B
1	Mr. Soraj Singh	Biochemistry	G. 61 I	TV.
2	Mr. Ashok Kumar	Biochemistry	Soras Single	TZ.
3	Mr. Pawan Kumar	Biochemistry	Ewankyman.	TV.
4	Mr. Anil Kumar	Botany	And	IV
5	Mr. Avinash Kalyan	Botany	1 0.34	1
6	Mr. Vikesh Mahto	Botany	Wiese .	IV.
7	Mr. Bache Singh	Chemistry	Busia	TV
8	Mr. Vijay	Chemistry	12 R	I
9	Mr. Rohit Passi	Chemistry	Thispany -	D.
10	Mr. Parveen Kumar	Chemistry	14:000	1
11	Mr. Suresh Shah	Chemistry		
12	Mr. Sandeep	Chemistry		
13	Mr. Davinder Rai	Chemistry	De la Alexander	П
14	Ms. Jyoti	Chemistry	note:	I.
15	Mr. Sachin Kumar	Physics	Elis	I
16	Mr. Prayeen Chasheun	Physics	Pharbaur	重土
17	Mr. Praveen Singh	Physics	troigh	I
18	Mr. Shiva Yadav	Physics	Shirayoular	I
19	Mr. Santosh Kumar	Computer science	Antech	IIL
20	Mr. Jaideep Singh	Geography	haiderte	III
21	Mr. Visiod Perajapati	Zotlogy	June-	III.
24.	Mr. Amet Kr.	Zollegy	Aniel	m
3	TARUN	Chemistry	Tomas	TIEL
4	Koopclay	Compydes Sejence	ONL.	ML



Photographs of Lab Staff Skill Workshop

Annual Report highlights of Lab Staff Skill Workshop (Annual Report 2019-20, Page No. 15)

Department of Biochemistry organised an Intra-college Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science laboratories under the DBT Sponsored Star College Scheme from May 20-24, 2019, along with the Department of Botany, Chemistry, and Zoology, Shivaji College.

X) One Week Faculty Development Program on "Research Methodology and Data Analysis using SPSS/R" (FDP 17) (November 14-20, 2019), organized by Shivaji College, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre (MHRDC), Hansraj College, University of Delhi, under the scheme of MHRD Pandit Madan Mohan Malviya National Mission on teachers and teaching (PMMMNMTT). (Annual Report 2019-20 page No. 94)

Brochure of FDP on "Research Methodology and Data Analysis using SPSS/R"







Shivaji College

UNIVERSITY OF DELHI

Mahatma Hansraj Faculty Development Center (MHRFDC)

One Week Interdisciplinary Faculty Development Programme

Research Methodology and Data Analysis Using SPSS/R

(November 14-20, 2019)

Library Reading Room, Shivaji College

Organized by:

Dept. of Commerce (Shivaji College)

MHRFDC (Hansraj College)

Teaching and research are the backhone of the academic profession. Search for knowledge or any systematic investigation to establish facts is known as research, it is about searching systematically for solutions to problems. For this statistical tools/devices are required. These tools not only provide a way of summarizing data into manageable and quicker way, but also help the researcher to make effective decisions about research problems. The process and product of scientific investigation and enquiry have been shaped by multiple factors, technological leaps and various cultural traditions to name a few. Methodologics, paradigms have metamorphosed considerably, as have ontologies and epistemologies. It may then be safe to say that there exist today in the research thought and action space, both, deviance and convergence from historically held and validated viceopoints. It is thus essential to propagate intersectionalities of seemingly diverse academic fields of knowledge as well as of varied research methods and techniques. An initiative to pivot a move directed at evolving methodologies for interdisciplinary enquiry will be a welcome step in meeting the aforesaid purpose.

- To encourage the research orientation of keen researchers in different disciplines. To familiarize the participants with an understanding of advances in research methods in the field of Social Science. To provide hands-on practical sessions on software that have inbuilt features to address challenges and opportunities in the field of research.

Programme Coverage

- nasic statistics for Research Questionnaire Designing Hypothesis Testing Reliability and Validity Analysis Factor Analysis Non-Parametric Tests
- Correlation and Regression Analysis Multiple and Logistic Regression Analysis

PEDAGOGY

ABOUT PMMMNMTT AND MHRFDC

The Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching emphasizes the need to change the role and task of a teacher from mere disseminator of information and knowledge to the one who advances frontiers of existing knowledge by actively developing and creating new insights into diverses social and playsical platenaueus. Malatums Haussiff Faculty Development Centre has been established under this scheme at Hansraj College with an objective to serve as one of the nodal points to conduct such programmes and workshops. These programmes provide opportunities to every academician/ teacher to upgrade their domain of knowledge, become aware about latest developments taking place in their subject and allied areas and acquire new skills in development of educational content and delivery. These programmes help in capacity building of teachers and promote institutional effectiveness in delivering and developing educational programmes and curriculum. The focus of some of these Faculty Development Programmes is also to provide support for research work and promote research in emerging issues in different fields of knowledge.

ABOUT THE COLLEGE

Shivaji College, a constituent College of the University of Delhi, is run under the trusteeship of Delhi Administration. It is a co-educational institution and imparts education in various subjects at both undergraduate and post-graduate levels. The College campus is spread over an area of 10 acres, used for academic purposes, residential complex and sports ground. There are 46 lecture rooms, most of which have multimedia projection facilities. In addition, there are 6 tutorial rooms and 14 science laboratories, 1 museum and 4 research project rooms. There are 4 computer laboratories with all the required software. The centrally air conditioned auditorium of the college has state of the art multi-melia facilities and has seating capacity of 250 persons. The entire campus is a Wi-Fi enabled zone. Shivaji College is a leading institute in West Delhi which offers 20 undergraduate courses in Science, Humanities and Commerce. It also offers is self-financing undergraduate course in B.A. (Honours) Business Economics and 3 post graduate courses, The air-conditioned college library offers students the most relevant academic materials from its collection of over 1, 00,000 books, as well as exposure to national and international journals, periodicals, magazines and newspapers. OPAC (Online Public Access Catalogue) and Information Kiosk also enable them to browse through the library database in a more efficient and precise manner.

Shivaji College's rigorous pursuit of academic excellence, co-curricular activities, it's hardworking and illustrious faculty and vendant campus has attracted students in large numbers. A number of the senior faculty members are supervising Ph.D. scholars registered with University of Delhi as well as other universities. Many of them are working on UGC-sponsored major and minor research projects and on University sponsored Innovation Projects. Students are also engaged as young researchers in the University of Delhi sponsored Innovation Projects. We at Shivaji attempt to inculate the philosophy of Chhatrapati Shivaji - a symbol of idealism, bravery, confidence and integrity. We strive hard to provide an enriching experience through education which is conducive to overall growth of an individual.

2

REGISTRATION

- There is NO REGISTRATION FEE.
- Pre-registration to the programme is through online mode only. Interested participants are required to fill the online pre-registration form available at the fol-
- Interested participents are required to fill the online pre-registration form available at the following link latest by 3181 October 2019.

 Registration Link: https://links/2/AGISOS

 MHRFDC Webpage: https://links/2/AGISOS

 MHRFDC Webpage: https://links/2/AGISOS

 Schetch participants will be informed by and November, 2019.

 Accommodation/TA shall be provided/reimbursed to outstation participants as per university.

WHO SHOULD ATTEND?

CERTIFICATE OF PARTICIPATION

A 'Certificate of Participation' will be awarded to every participant on the successful completion of the Faculty Development Programme.

ORGANIZING COMMITTEE

MHRFDC TEAM

MTIRTDC TEASH
Ornocare Prof. Cham, Frincipal, Hansraj College
Dr Jyofi Bhola, Coordinator
Dr Lokesh Chandra Mishra, Deputy Coordinator
Mr. Ashutosh Yadav, Deputy Coordinator
Mr. Ashutosh Yadav, Deputy Coordinator
Mr. Shutosh Mr. Ashutosh M

FDP ORGANIZING COMMITTEE

For any query, contact us at:

fdp.hre@email.com

Poster of FDP on "Research Methodology and Data Analysis using SPSS/R"



Report: The session on the first day started with an introduction of the participants, their designation and expectations from the workshop. The following sessions covered topics like Variable and Measurement, theory testing and building research, what is variable, types of variable like independent, dependent, categorical, continuous, moderator, mediator, active, attribute, qualitative, quantitative, continuous and discrete etc., with proper description on the interaction of one variable with other and relation between them.

The second day of the faculty development program on Research Methodology and Data Analysis using SPSS/R started with a lecture on the importance of review of literature. The lecture stressed on scholarly communication, published record of research and indexed research databases. Other important sessions were on the basics of statistics to understand the level of knowledge of participants as there were participants from different streams. The programme also informed about research types, questionnaire preparation and sampling techniques using live examples from our daily life.

The week-long programme concluded with a session on the process of writing and publication of research paper, and information about various journals in the field of finance, marketing and multidisciplinary which are SCOPUS indexed or in UGC Care list.

MAHATMA HANSRAJ FACULTY DEVELOPMENT CENTRE UNDER PANDIT MADAN MOHAN MALAVIYA MISSION ON TEACHERS AND TEACHING

HANSRAJ COLLEGE, UNIVERSITY OF DELHI-110007

Collaboration with Shivaji College, University of Delhi

FDP-16

"Research Methodology and Data Analysis Using SPSS / R"

14th - 20th November, 2019

ATTENDANCE SHEET

SESSION TOPIC: DATE:/_/2019						
RESOUR	RESOURCE PERSON:					
S.No.	Prof./Dr./ Mr./Ms.	Name of Participant	College /Institution	SIGNATURE		
1	Ms.	Aditi Singh	Gautam buddha university			
2	Mr.	Ajay Pal Singh	Central University of Haryana			
3	Dr.	Ajeet Jaiswal	DEPARTMENT OF ANTHROPOLOGY, PONDICHERRY UNIVERSITY, PUDUCHERRY, INDIA			
4	Mr.	Amgad S. Khaled	NA			
5	Mr.	Amlesh Kumar	RIE (NCERT), BHUBANESWAR			
6	Dr.	Baljinder Singh	University of Delhi			
7	Ms.	Chhavi	Sh.L.N.Hindu College			
8	Mr.	Dewashish Kumar	Vinoba Bhave University			
9	Ms.	Diksha Gupta	S.B.S.Govt. College, Kotkapura			
10 11	Dr. Dr.	Divya Sharma Dr Vinay Devlal	Govt. Degree College, Kotdwar Bhabar			
12	Dr.	Hema Gupta	Aditi mahavidalaya			
13	Ms.	Joycy Vungneihchoi	Anthropology			
14	Dr.	Junuguru Srinivas	GITAM UNIVERSITY			
15	Ms.	Jyoti	Shivaji college			
16	Ms.	Khushboo Gautam	Indian Institute of foreign trade			
17	Dr.	Kiran Bamel	Shivaji College			
18	Dr.	Kusum Lata	Govt PG College, Deoband, Saharanpur			
19	Mr.	Lalboi Chin Mangte	IGIPESS			

	•		
20	Ms.	Manisha Rani	Shivaji college
21	Ms.	Meenakshi Kumari	Drram Manohar Lohia National Law University, Lucknow
22	Mr.	Mohammad Faisal	Jamia Millia Islamia
23	Mr.	Mohammed Samroodh T V	ALIGARH MUSLIM UNIVERSITY
24	Mr.	Mohd Jawaid Naseem	Aligarh Muslim University
25	Ms.	Monika	Shivaji College, University of Delhi
26	Dr.	Naresh Sudhaveni	Centre for Economic and Social Studies
27	Dr.	Neetu Rani	Shivaji College
28	Dr.	Prabha Rani	Shyama Prasad Mukherji College (For Women)
29	Ms.	Pratiksha Jha	Gautam Buddha University
30	Mr.	Praween Singh Kushwaha	Sahdev Chandravanshi B. ED. College, Bishrampur palamu jharkhand
31	Mr.	Rajesh Chandra	CENTRAL UNIVERSITY OF GUJARAT
32	Mr.	Ramesh Kumar	Hansraj College
33	Mr.	Ravindra Kumar Thakur	Indira Gandhi National Tribal University
34	Mr.	Ritesh Kumar	MLNCE
35	Ms.	Sarulakshmi R	Kamala Nehru College
36	Ms.	Seema Ohri	Govt. Arya Degree College Nurpur
37	Ms.	Shivani Yadav	Government college for Girls, Ballabgarh
38	Ms.	Sneha Suman	Vinoba Bhave University
39	Ms.	Suman Kharbanda	Shivaii College

40	Ms.	Sundus Chishti	Frank and Debbie Islam Management Complex
41	Ms.	Surabhi	Gautam Buddha University
42	Dr.	Suresh	St.Joseph University
43	Ms.	Tanya Shaw	Central university of Haryana
44	Dr.	Urmila Bharti	Zakir Husain Dethi College Evening
45	Mr.	Utsav Krishan Murari	Central University of South Bihar
46	Dr.	Vijay Vrat Arya	Shaheed Bhagat Singh College
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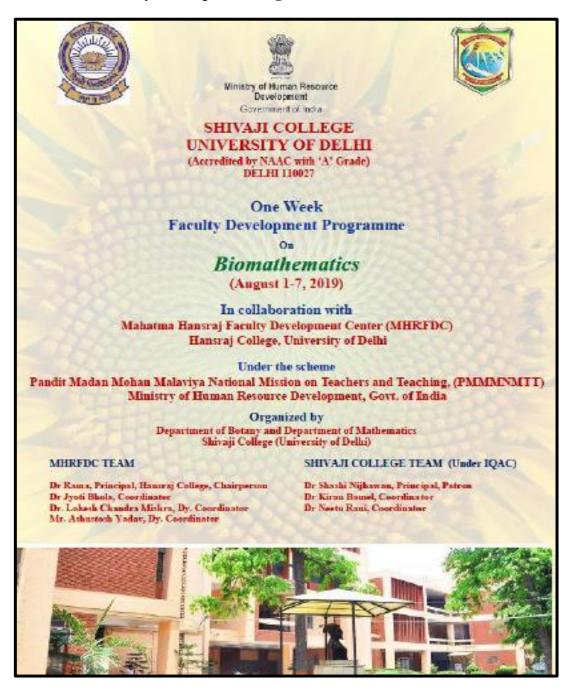
Photographs of FDP on "Research Methodology and Data Analysis using SPSS/R"

Annual Report highlights of FDP on "Research Methodology and Data Analysis using SPSS/R" (Annual Report 2019-20 page No. 94)

Attended one-week Faculty Development Programme on "Research Methodology and Data Analysis using SPSS/R" organised by Shivaji College, University of Delhi, in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, from November 14-20, 2019

XI) Shivaji College, University of Delhi in collaboration with Mahatma hansraj faculty development centre under Pandit madan mohan malaviya mission on teachers and teaching hansraj college, university of delhi, Faculty Development Program - Biomathematics August 1-7, 2019, (Annual Report 2019-20 page No. 21)

Poster of Faculty Development Program - Biomathematics



Report:

Shivaji College (University of Delhi) at Raja Garden organized a One week Faculty Development Program on "Biomathematics" from 1st –7th August, 2019 in collaboration with Mahatma Hansraj Faculty Development Centre (MHRFDC), Hansraj College, University of Delhi. It was coordinated by Dr. Kiran Bamel from Department of Botany and Dr. Neetu Rani from Department of Mathematics. It was attended by 40 faculty members from various colleges of the University of Delhi and NCR. The participants belonged to diverse disciplines like Mathematics, Zoology, Botany, Physics, Computer Science, Microbiology and Biochemistry. The aim of the program was to expand the horizons of the faculty regarding the application of mathematics in various biological organisms and processes, to use mathematical modeling to understand and give insights into biological processes like – plants growth, nerve impulse transmission, tumor growth etc.

The inaugural session was chaired by Prof. S. C. Bhatla, Chairman, Governing Body of Shivaji College and Dr Rama, Principal Hansraj College. Each day comprised of four sessions, for which speakers of eminence and extensive expertise were invited. Prof. Subhendu Ghosh, Head Department of Biophysics, DU; Prof. Ajay Kumar, Department of Mathematics, DU; Prof. Sudesh Srivastava, Dept. of Global biostatistics and Data science, Tulane University, USA, Prof. Sanjay Jain, Head, Department of Physics and Astrophysics, DU were amongst the distinguished speakers who delivered lectures during the program.

This FDP updated the teachers about the emerging trends in the field of Biomathematics and equipped them with tools and techniques required for analyzing their research findings. Some of the broad areas covered during this FDP were Biomathematics, Bioinformatics, Biostatistics and Computational Biology. This FDP empowered the participants to conceptualize phenomenon for applications of Biomathematics. Following were the course contents in the FDP-

☐ Basic Concepts and Applications
☐ Stochastic formalism of Biological systems
☐ Analytical and Computational approach
☐ Mathematical Models of Learning and Memory
☐ Collective behavior of Biological Molecules
☐ Mathematical regularities and models to understand Microbial growth

The 7 day program was brought to a close in the afternoon of 7th August by distribution of participation certificates by Dr. Shashi Nijhawan, Principal, Shivaji College, during the valedictory session.

List of Participants:

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2	Mr.	Anil Kumar Rajak	ARSD College, University of Delhi	hust
3	Dr.	Anita Rani	Dyal Singh College, University of Delhi	Ameala
4	Mr.	Ashesh Kumar Jharwal	Shivaji College, University of Dethi	Ashedh
5	Dr.	Bipin Singh Koranga	Kirori Mal College, University of Delhi	9381N
6	Dr.	Brototi Roy	Maitreyi College, University of Delhi	Busteli
3/	Mr.	Chandra Shekhar	Deshbandhu College, University of Delhi	JA A
8	Dr.	Deepika Yaday	Shivaji College, University of Delhi	Litale
9	Ms.	Deepti	Shivaji college, University of Delhi	~
10	Ms.	Deepti Jain	Sri Venkateswara College, University of Delhi	rece
×	Ms.	Divya Singh	Maitreyi college, University of Delhi	502
12	Ms.	Geetan Manchanda	Maitreyi College, University of Delhi	Johnson
13	Dr.	Jayita Thakur	Shivaji College, University of Delhi	Southat
14	Dr.	Jeetendra Aggarwal	Shivaji College, University of Delhi	mal
15	Mr.	Jitendra Singh	Shivaji College, University of Delhi	Jone Jake
16	Dr.	Jyoti Singh	Maitreyi college, University of Delhi	Jank
17	Dr.		Miranda House, University of Delhi	Jyea
18		200000000000000000000000000000000000000	Deshbandhu College, University of Delhi	9
19			Shivaji College, University of Delhi	B
20	Mr.		Shivaji College, University of Delhi	Marish

21	Dr.	Meenakshi Sridhar	Rajdhani college, University of Delhi
122	Dr.	Misha Yadav	Shivaji College, University of the Niche
25	Ms.	Nimita Kant	Delhi Shivaji College, University of Dk of the Control of the Cont
24	Dr.	Pooja Baweja	Maitreyl College, University of Quint
25	Dr.	Pooja Gulati	Department of Microbiology. MDU Relitak
26	Ms.	Pooja Gupta	Gargi College, University of Delhi (98)
27	Dr.	Prabhavathi	Shivas College, University of Diffusion 19
35	Mr.	Ramakant prasad	Gargi College, University of Delhi
29	Dr.	Ritu Arora	Keshav Mahavidyalaya, Linkerta 512 19
- 30	Dr.	Sanjay Kumar	Mattarshi Dayanand University 304ver
31	Ms.	Sapna Malhotra	Gargi College, University of Delhi Sagra
32	Mr.	Satish Kumer	Securiment or management of the Principles
33	Dr.	Seema Talwar	Department of South of SELHI
34	Dr.	Shilpi Verma	Delhi
35		Urvashi Arora	Rajdhani college, University of
2		Uttam Kumar Sinha	Shivaji College, University of College, University of School School College
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Photograph of Faculty Development Program - Biomathematics

Annual Report highlights of Faculty Development Program – Biomathematics

Department of Mathematics Organised a Faculty Development Program (FDP) on "Biomathematics" from August 1-7, 2019, along with Department of Botany, Shivaji College, in collaboration with Mahatma Hansraj Faculty Development Center (MHRFDC), Hansraj College, University of Delhi, under the scheme Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development, Govt. of India. The objective of this FDP was to motivate the research and innovation of faculty in the emerging areas of Biomathematics. Teachers from Mathematical Sciences, Biological Sciences, Physics and Computer Science fi elds, participated in the FDP from all over the country.

XII) Inter-College Laboratory Skill Training Programme (Annual Report 2019-20 page No. 15)

Poster of Inter-College Laboratory Skill Training Programme



Report: Inter-College Laboratory Skill Training Programme was organized for Assistants/Attendants in the Chemical and Life Science Laboratories from 27th November to 3rd December, 2019 under DBT sponsored Star College Scheme involving Department of Biochemistry, Botany, Chemistry and Zoology. The Lab Staff Training Workshop in chemistry helped in equipping lab staff (Assistants and Attendants) better to handle chemicals, to prepare accurate solutions (with defined normality and molarity) and also how to maintain apparatus and instruments properly.



Photographs of Inter-College Laboratory Skill Training Programme

Annual Report highlights of Inter-College Laboratory Skill Training Programme: (Annual Report 2019-20 page No. 15)

Inter-college Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science laboratories under the DBT Sponsored Star College Scheme from November 27 to December 3, 2019, along with the Department of Botany, Chemistry, and Zoology, Shivaji College.