

Seven Days National Faculty Development Programme

on

Analytical Techniques for Research

Organized by

**Government College of Commerce and
Business Administration
Sector – 50, Chandigarh**

In Collaboration with

Rashtriya Uchchar Shiksha Abhiyan

Date: 28th March, 2016 to 3rd April, 2016

Government College of Commerce and Business Administration, Sector – 50, Chandigarh is organizing a Seven Days National Faculty Development Programme on **Analytical Techniques for Research** in collaboration with Rashtriya Uchcharat Shiksha Abhiyan. The main aim of the Faculty Development Programme is to train the researchers and academicians on latest techniques of research through conceptual and hands on training and close interface with latest research based software. The course will benefit students who are pursuing Ph.D. and M.Phil. Programme and research guides.

ABOUT NATIONAL FACULTY DEVELOPMENT PROGRAMME:

The global business environment is incessantly changing, so are the ways of doing business and research. Business problems have become complex, simple data has become high frequency data and the age old simple analysis methods have given way to sophisticated research techniques facilitated by advanced databases and software packages. The architects of the new age business and academic world are undoubtedly the teachers and researchers who through their research based quantitative and qualitative inputs can bring the desired difference. This can be facilitated through good quality researches which can provide productive inputs for future policy actions and build a strong academic fortress of the country. To address challenges and opportunities in the field of research, comprehensive knowledge of research methods, suitable analytical techniques and appropriate new age statistical and software packages is vital.

This NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAMME on “Analytical Techniques for Research” is an attempt for the same and is open to the academicians, faculty members, research scholars, industrial practitioners and Ph.D. Students of different disciplines.

Key Highlights of the National Faculty Development Programme:

- ❖ Hands on training sessions on data handling, analyzing and deriving preliminary results.
- ❖ Practice Sessions with model exercise.
- ❖ Discussion on the underlying assumptions of the statistical tools.
- ❖ Discussion on common errors in research.
- ❖ Discussion on how to interpret results and how to report them.
- ❖ Familiarization and operational knowledge of different software packages for comprehensive analysis.
- ❖ **Experienced faculty from renowned Universities and Institutes to train participants.**

➤ Important Information

The number of seats for the workshop is 40. The applicants are advised to send their applications at the earliest. The seats will be allocated on first come first serve basis. Please fill the Registration form duly attached.

Send the Application Form to:

Dr Bikramjit Kaur

Programme Coordinator

Government College of Commerce and Business Administration

Sector – 50,

Chandigarh -160047

INDIA

For further enquiries, any of the following may be contacted:

<p>Dr. Bikramjit Kaur FDP Coordinator Government College of Commerce and Business Administration Sector – 50, Chandigarh -160047 INDIA (M) +91 9888312026 , +91 8146312026 Email : bikramkaur@gmail.com</p>	<p>Dr. Naveen Pandhi RUSA Nodal Officer Government College of Commerce and Business Administration Sector – 50, Chandigarh -160047 INDIA (M) +91 9888185849 Email : naveenpandhi@gmail.com</p>
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Request to the participants:

1. It is mandatory for candidates to bring their own laptops.
2. Report on time every day and don't leave until session is complete.
3. Manage the time for lunch and tea break i.e. complete lunch and tea within stipulated time.
4. Switch off mobiles during the sessions.
5. Certificate will be issued only to those participants who shall actually attend FDP for all the seven days and strictly as per schedule.

**Government College of Commerce and Business Administration,
Sector – 50, Chandigarh**

**Seven Days National Level Faculty Development Programme under RUSA
Analytical Techniques for Research (28th March, 2016 to 3rd April, 2016)**

DATE / RESOURCE PERSON	SESSION I	SESSION II	SESSION III	SESSION IV
28.03.2016 / Prof.(Dr.) Sanket Vij	Inauguration and Breaking the ICE	Research Methodology: Curtain Raiser	Sources of Information for Researchers	Introduction to SPSS, Data Entry in SPSS, Data Screening, Transformation
29.03.2016 / Prof.(Dr.) Sanket Vij	Data Editing	Data Cleanliness and Data Normalization	Data Diagnostics & Data Collection Techniques	Descriptive Analysis Test
30.03.2016 / Dr. Neeraj Kaushik	Hypothesis Testing – I Parametric Tests	Hypothesis Testing – I Parametric Tests	Hypothesis Testing – I Parametric Tests	Practice in Lab
31.03.2016 / Dr. Neeraj Kaushik	Hypothesis Testing – II Non- Parametric Test	Hypothesis Testing – II Non- Parametric Test	Hypothesis Testing – II Non- Parametric Test	Practice in Lab
01.04.2016 / Dr. Balwinder Singh	Regression Analysis-I	Regression Analysis-I	Regression Analysis-I	Practice in Lab
02.04.2016 / Dr. Sanjay Rastogi	Factor Analysis	Factor Analysis	Factor Analysis	Practice in Lab
03.04.2016 / Dr. Sanjay Rastogi	Discriminant Analysis-I	Discriminant Analysis-II	Conjoint Analysis	Valedictory Session

- Lunch Break after Session II and Tea will be served after Session III inside the seminar room.

Dr. Naveen Pandhi
RUSA Coordinator

Dr. Bikramjit Kaur
Programme Coordinator

Mrs. Manjit Kaur
Principal

Seven days National Level Faculty Development Program
on
Analytical Techniques for Research
(28th March – 3rd April, 2016)
Govt. College of Commerce and Business Administration,
Sector-50 Chandigarh

REGISTRATION FORM

Name of participant

(Prof./Dr./Mr./Mrs./Ms.): _____

Designation: _____ **Gender:** Male / Female

Company/Institute/University: _____

Address: _____

City: _____ **State:** _____ **Pin Code:** _____

Telephone: _____ (with STD code)

E-mail: _____ **Mobile:** _____

Qualifications: _____

Specialization: _____

Experience (years): _____ **Accommodation Required:** Yes or No _____

Participants Signature

Signature with stamp of Head of Institution

**Government College of Commerce and Business Administration,
Sector-50, Chandigarh**

Seven Days National Level Faculty Development Programme

“Analytical Techniques for Research”

(28th March, 2016 to 3rd April, 2016)

PARTICIPANT’S ATTENDED NATIONAL FDP

S.No.	Name of Participant	Name of College/ Institue	Designation
1	Prof. (Dr.) Rosy Walia	GCCBA – 50, Chandigarh	Professor
2	Mr. Amar Preet Singh Sijher	GCCBA – 50, Chandigarh	Assistant Professor
3	Dr. Manoj Bhambu	GCCBA – 50, Chandigarh	Associate Professor
4	Dr. Bikramjit Kaur	GCCBA – 50, Chandigarh	Assistant Professor
5	Mr. Yogesh Kumar	GCCBA – 50, Chandigarh	Assistant Professor
6	Dr. Naveen Pandhi	GCCBA – 50, Chandigarh	Assistant Professor
7	Dr. Rajiv Salwan	GCCBA – 50, Chandigarh	Assistant Professor
8	Mr. Amar Nath	GCCBA – 50, Chandigarh	Librarian
9	Ms. Sandeep	GCCBA – 50, Chandigarh	Assistant Professor
10	Ms. Vandana Jain	GCCBA – 50, Chandigarh	Assistant Professor
11	Ms. Subina Syal	GCCBA – 50, Chandigarh	Assistant Professor
12	Dr. Aarti Kaushal	GCCBA – 50, Chandigarh	Assistant Professor
13	Dr. Renuka Mehra	GCCBA – 50, Chandigarh	Assistant Professor
14	Ms. Sarbjeet Kaur	GCCBA – 50, Chandigarh	Assistant Professor
15	Ms. Harinder Kaur	GCCBA – 50, Chandigarh	Assistant Professor
16	Ms. Kriti Mahajan	GCCBA – 50, Chandigarh	Assistant Professor
17	Ms. Rishu Sachdeva	GCCBA – 50, Chandigarh	Assistant Professor
18	Ms. Kamalpreet Kaur	GCCBA – 50, Chandigarh	Assistant Professor
19	Dr. Shaveta	GCCBA – 50, Chandigarh	Assistant Professor
20	Ms. Monica Diwan	GCCBA – 50, Chandigarh	Assistant Professor
21	Ms. Harneet Kaur	GCCBA – 50, Chandigarh	Assistant Professor

22	Dr. Amandeep Verma	GCCBA – 50, Chandigarh	Assistant Professor
23	Mr. Manjit Singh	GCCBA – 50, Chandigarh	Assistant Professor
24	Dr. Surinder Kaur	PGGC – 46, Chandigarh	Assistant Professor
25	Dr. Surjit Singh	SGGS Khalsa College Sector- 26, Chandigarh	Assistant Professor
26	Dr. Manjinder Singh	SGGS Khalsa College Sector- 26, Chandigarh	Assistant Professor
27	Ms. Sarbjit Kaur	PGGCG – 42, Chandigarh	Assistant Professor
28	Ms. Ramandeep Mann	SGGS Khalsa College Sector- 26, Chandigarh	Assistant Professor
29	Ms. Vandana Lama	PGGCG – 42, Chandigarh	Assistant Professor
30	Ms. Nisha Goyal	DSCW – 45, Chandigarh	Assistant Professor
31	Ms. Archan	ITFT College, Chandigarh	Assistant Professor
32	Ms. Harminder Kaur	ITFT College, Chandigarh	Assistant Professor
33	Dr. Daljeet Kaur	Khalsa College (ASR) of Technology & Business Studies, Mohali	Assistant Professor
34	Dr. Jasmeet Kaur	Khalsa College (ASR) of Technology & Business Studies, Mohali	Assistant Professor
35	Dr. Kulpreet Kaur	Khalsa College (ASR) of Technology & Business Studies, Mohali	Assistant Professor
36	Dr. Uma Narang	PGGC – 46, Chandigarh	Assistant Professor
37	Mr. Rajneesh Behra	DSCW – 45, Chandigarh	Assistant Professor
38	Ms. Ashima Mangla	SGGS Khalsa College Sector- 26, Chandigarh	Assistant Professor
39	Ms. Rinki	ITFT College, Chandigarh	Assistant Professor
40	Ms. Anuradha	Panjab University, Chandigarh	Research Scholar

Dr. Naveen Pandhi
RUSA Coordinator

Dr. Bikramjit Kaur
FDP Coordinator

Mrs. Manjit Kaur
Principal

REPORT OF 7 DAYS NATIONAL FDP

(28.03.2016 to 03.04.2016)

GCCBA – 50, Chandigarh in association with RUSA has conducted Seven Days National Faculty Development Programme on " Analytical Techniques for Research " from 28/03/2016 to 03/04/2016.

The inaugural ceremony was held on 28/03/2016. Principal, Mrs. Manjit Kaur delivered the inaugural address and welcomed the distinguished guests. Dr. Bikramjit Kaur FDP Coordinator introduced the theme of Faculty Development Program and introduced Prof.(Dr.) Sanket Vij, the Keynote speaker of the day. She elucidated the concept of a good research idea and linked the same with research design issues. After breaking the ice, Dr. Naveen Pandhi RUSA Coordinator expressed vote of thanks. He convinced the audience about utility of quality research.

The FDP program was a weeklong exercise covering wide range of topics as listed below:-

- Research Idea & initiating research in Reference to present paradigm
- Parameters of quality of research and research design issues
- International Publication: Needs and Planning
- Introduction to time series modeling
- Basic of statistics and intro to SPSS
- Hypothesis testing parametric tests on SPSS
- Hypothesis testing non parametric tests
- Factor Analysis
- Multiple Regression
- LOGIT and PROBIT analysis
- EVIEWS procedure
- Introduction to Structure Equation modeling
- Discriminate analysis

These learning guided the researchers in upgrading their skills so as to conduct international standard research work. The academic planning and delivery was taken care by eminent scholars from highly esteemed institutes all over India.

The following persons contributed in the field:-

1. Prof.(Dr.) Sanket Vij - Professor -Department of Management Studies, Chairperson - Department of Commerce, Director – UGC Human Resource Development Centre (ASC), Coordinator – NAAC, Member - Academic Council, Member – Court, and Member of various prominent committees at Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat, Haryana (BPSMV)

2. Dr. Neeraj Kaushik - Associate Professor at National Institute of Technology, Kurukshetra

3. Dr. Balwinder Singh – Head of the Department of Commerce and Business Management at Guru Nanak Dev University, Amritsar and Secretary, Indian Commerce Association at Indian Commerce Association

4. Dr. Sanjay Rastogi – Associate Professor at Indian Institute of Foreign Trade, Bangalore Specialised in Quantitative Techniques, Business Research Methods, Econometrics.

The valedictory ceremony was held on 03/04/2016. Mrs. Manjit Kaur, Principal, GCCBA-50, Chandigarh was the Chief Guest and Dr. Sanjay Rastogi was the guest of honour in the event. Daily Proceedings of the session wise was delivered by Dr. Naveen Pandhi RUSA Coordinator.

Speaking on the occasion, Mrs. Manjit Kaur emphasized the importance of modeling and data analysis techniques and use of sophisticated software. She said that quality research needs these analytical skills in today's globalised environment. She linked it with skilled India dream and advised the participants to choose some quality journals and make efforts for publications in the same. Then Mrs. Manjit Kaur, Principal, GCCBA-50, Chandigarh gave the concluding remarks and certificates were distributed by the Principal Madam the Chief Guest of the day and Dr. Sanjay Rastogi the guest of honour. In the end, Dr. Bikramjit Kaur FDP Coordinator expressed vote of thanks and convey her best wishes for doing quality research publications.

Dr. Naveen Pandhi
RUSA Coordinator

Dr. Bikramjit Kaur
Programme Coordinator

Mrs. Manjit Kaur
Principal

7 Days Faculty Development Programme

DAY WISE

Day 1: 28/03/2016

The first day of the 7 Days National Level Faculty Development Programme started with the inaugural session. The speaker for the day was Prof. (Dr.) Sanket Vij, from Sonapat. The Principal Mrs. Manjit Brar officially welcomed the speaker and the participants. The session started with the ice breaking session in which the participants were asked to give their introduction. The session was carried forward by the speaker for the session Prof. (Dr.) Sanket Vij as he gave an insight on the theme: research methodology: a curtain raiser. He highlighted the various techniques for review of literature, various sources for data collection. After the session lunch was served. After lunch, the new sessions was started in which the participants were briefed about the use of SPSS.



Day 2: 29/03/2016

Prof. (Dr.) Sanket Vij was the speaker for the second day. In the first session he emphasized on the various techniques for data changing, data cleaning, data transformation. After lunch, Prof. Vij detailed the participants about the hypothesis testing. He emphasized on the concepts like outliers, normality tests and how the hypothesis have to be tested.



Day 3: 30/03/2016

The speaker for the day was Dr. Neeraj Kaushik. He started the session by explaining the various types of variables that are used in the research. He threw light on the different types of tests and their use according to the nature of the variables. Post lunch he told some rule of thumb to decide which technique is to be applied to particular set of data by framing tables for the respective variable type. He concluded the session with few case studies on testing the hypothesis.



Day 4: 31/03/2016

Dr. Neeraj Kaushik carried out sessions for the day. He started with the case studies through which he stressed on the importance of the dependent and the independent variables in the research. He also emphasized on which technique would be the best to test the hypothesis. He concluded the session by explaining in detail how ANOVA as a technique can be applied by giving various examples and case study on it.



Day 5: 01/04/2016

The speaker for the day was Dr. Balwinder Singh. He gave an insight on the concept of regression. He threw light on the assumptions of regression and the steps of regression. He also briefed the participants regarding the various websites that could be used for finding the research papers and thesis for research purposes.



Day 6: 02/04/2016

The speaker for the day was Dr. Sanjay Rastogi. He stressed on the concept of factor analysis. He highlighted that various important concepts along with factor analysis like multicollinearity, methods of identifying multi collinearity, mechanisms of multicollinearity, assumptions of factor analysis, advantages of factor analysis, steps of factor analysis. He further emphasized on the concepts like reliability and validity of data.



Day 7: 03/04/2016

The session was carried forward by Dr. Sanjay Rastogi. He started the day by discussing a case study. Further he discussed the discriminant analysis. He discussed the forecasting models and its types. He further discussed the differences between regression analysis and discriminant analysis. The session concluded with the detailed exercise on the discriminant analysis. Then the valedictory function ended with huge enthusiasm among participants.



Thank you all.

Dr. Naveen Pandhi
RUSA Coordinator

Dr. Bikramjit Kaur
Programme Coordinator

Mrs. Manjit Kaur
Principal

