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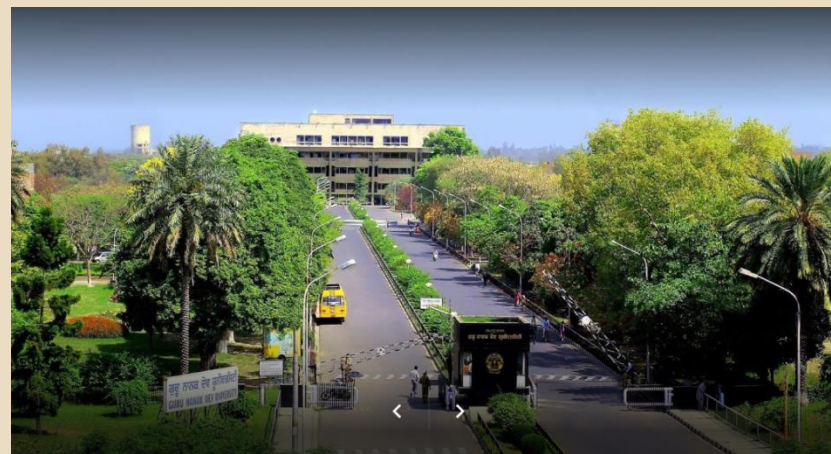
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UGC-HUMAN RESOURCE DEVELOPMENT CENTRE
GURU NANAK DEV UNIVERSITY, AMRITSAR



One-Week Short Term Course
on
RESEARCH METHODOLOGY
For
Faculty & Ph.D. Scholars of
Universities/Colleges/Institutes
September 11-17, 2019



Organized by
UGC-HUMAN RESOURCE DEVELOPMENT CENTRE

About the University

Guru Nanak Dev University was established at Amritsar on November 24, 1969, the year of 500th birth anniversary of Sri Guru Nanak Dev Ji. It is both a residential and an affiliating university. In conceiving the future course of the University, the objectives enshrined in the Guru Nanak Dev University Act 1969, emphasised that the new University would make provisions for imparting education and promoting research in arts and humanities, social sciences, sciences and technology. As per recent survey conducted by 'India Today', the University has risen to 16th rank in the top 50 universities of the country. It has achieved 11th Position, out of the 500 universities of India, in publications in Sciences. The University holds a record of winning the highest Sports Award in the country-the Maulana Abul Kalam Azad Trophy, for 21 times.

UGC-Human Resource Development Centre (HRDC):

Rechristened as UGC-Human Resource Development Centre w.e.f. February 1, 2015, the history of our HRDC dates back to as early as 1988, when it was established as one of the earliest then known as Academic Staff Colleges. Since its inception, it has traversed a long, arduous journey under the stewardship of able directors, eminent scholars and academicians pertaining to diverse disciplines has thus carved a niche for itself in the realms of Higher Education in the country. Till now, the Centre has successfully conducted 102 Orientation Programmes, more than 200 Refresher Courses, more than 30 Short Terms Courses, and some additional courses for Academic Administrators and Nonteaching employees. In the 2012, the NAAC team ranked ASC (now known as HRDC) at 12th position amongst the 66 ASCs in the country.

Objectives

- a) To organize specially designed Orientation Programmes (OPs) in pedagogy, educational psychology and philosophy, and socio-economic and political concerns for all new entrants at the level of Assistant Professor;
- b) To organize advanced level and more discipline oriented Refresher Courses (RCs), for capacity enhancement and continuous knowledge up-gradation and exposure to emerging developments of faculty involved in teaching in institutions of higher education;

c) To ensure that every teacher in higher education system of our country is exposed to an OP and a RC at least once during the first three to five years; of his/her career

d) To organize specially designed OPs/RCs to enable the faculty involved in teaching and research in institutions of higher education to utilize fast growing Information and Communication Technology support to teaching and research;

About the workshop

The purpose of workshop is to equip Faculty and Research Scholars with the latest techniques of Data collection, Data Diagnostics and Data Analysis. The emphasis will be on 'Hands on Training' through Software like SPSS, JAMOVİ etc. The detailed program of the workshop is given on next page. All the participants are required to bring their Laptops. The faculty members and research scholars who do not deal with data collection and data analysis are advised not to participate in the workshop. The working knowledge of computer and excel is prerequisite for this workshop

Duration

The workshop is scheduled from September 11-17, 2019. Duration of the Sessions will be 9.00 am to 4.00 pm each day. There shall be a tea break from 11:30 am to 12:00 noon followed by a lunch break from 1.30 pm to 2.00 pm.

Target Group

Applications are invited from faculty members and Ph.D Scholars of Universities/Colleges/Institutes of Higher Education to enroll for the Course.

Registration

There is a registration fee of Rs.1000/- for participation in the Course. For online submission of Application form/fee & further details, please visit our website: www.hrdcgndu.org. For any registration related queries contact at **0183-2258802-09 Ext. 3178 (9am- 5pm, Mon-Fri)**

Hospitality

Participants will be provided boarding/lodging by the Centre on nominal rates. TA upto IIIrd A.C. will be provided to those participants whose College/Institute comes within the purview of section 2(f) and 12B of UGC Act. As per UGC guidelines, there is no provision of TA/DA to the Ph.D Scholars. Lunch during the Working days of the Course will be provided to them by the Centre.

Day	Tentative Topics	Resource Person	Time
11.09.19 Wednesday	Inaugural Session / Introduction of the Participants	Dr. Balwinder	10:00-11:30
	Tea Break		11:30-12:00
	Research Process, Types of Research, Types of Data	Dr. HJ Ghosh Roy	12:00-1:30
	Lunch Break		1:30-2:30
	Data preparation – Coding & Tabulation, Data Handling- Missing Frequencies, Outliers	Dr. Sanket Vij	2:30-4:00
12.09.19 Thursday	Issues in research: Plagiarism, Ethics	Dr. HJ Ghosh Roy	10:00-11:30
	Tea Break		11:30-12:00
	Bi-variate Analysis- Introduction, Descriptive Statistics & Cross-tabulation	Dr. Sanket Vij	12:00-1:30
	Lunch Break		1:30-2:30
	Hypothesis testing (t-test, ANOVA, Non-Parametric tests)	Dr. Sanket Vij	2:30-4:00
13.09.19 Friday	Scales: Formative & Reflective (Likert Scale)	Dr. Sanjay Rastogi	10:00-11:30
	Tea Break		11:30-12:00
	Concept of Reliability and Validity, Types of Validity and Reliability	Dr. Sanjay Rastogi	12:00-1:30
	Lunch Break		1:30-2:30
	Simple Liner Regression Analysis-Concept, Assumptions	Dr. Sanjay Rastogi	2:30-4:00
14.09.19 Saturday	Multiple Regression Analysis, Various Statistics of Multiple Regression	Dr. Sanjay Rastogi	10:00-11:30
	Tea Break		11:30-12:00
	Concept of Part and Partial Correlation	Dr. Neeraj Kaushik	12:00-1:30
	Lunch Break		1:30-2:30
	Reporting Simple/ Multiple Regression	Dr. Neeraj Kaushik	2:30-4:00
15.09.19 Sunday	Assumptions of Multiple Regression	Dr. Neeraj Kaushik	10:00-11:30
	Tea Break		11:30-12:00
	Exploratory Factor Analysis (EFA)-Concept and Usage, Different Statistics in EFA	Dr. Neeraj Kaushik	12:00-1:30
	Lunch Break		1:30-2:30
	Scale Construction	GNDU Faculty	2:30-4:00
16.09.19 Monday	Concept of Confirmatory Factor Analysis (CFA)	Dr. Gurjeet Kaur	10:00-11:30
	Tea Break		11:30-12:00
	EFA vs CFA	Dr. Gurjeet Kaur	12:00-1:30
	Lunch Break		1:30-2:30
	Computation of Validity & Reliability with software package	Dr. Gurjeet Kaur	2:30-4:00
17.09.19 Tuesday	Introduction to SEM	Dr. Gurjeet Kaur	10:00-11:30
	Tea Break		11:30-12:00
	Various Sources of Information	Dr Balwinder	12:00-1:30
	Lunch Break		1:30-2:30
	Valedictory Session	Dr Balwinder	2:30-4:00