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Sr.No	Name of Workshop/Seminar
1.	Applied Statistics For Research In Interdisciplinary Studies
2.	Intellectual Property Awareness

“REPORT”
FIVE DAYS NATIONAL LEVEL WORKSHOP
On
“APPLIED STATISTICS FOR RESEARCH IN
INTERDISCIPLINARY STUDIES”

Organized by
Degree College of Physical Education
Multi-faculty Autonomous College Amravati (M.S.)
In Collaboration with
Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, (Central University) Wardha

A very auspicious and astonishing opportunity it has been to have this workshop on statistics at the Degree College of Physical Education, Multi-Faculty Autonomous College, Amravati (M.S.). The workshop itself was so intellectual and dividend of knowledge of all dignities from all over the nation. The workshop was dated 4th April to 8th April 2023. The workshop was named and designed under the MoU established between the Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, (Central University) Wardha (M.S) and Degree College of Physical Education, Amravati (M.S.). on 4th April at the opening ceremony the introductory speech was delivered by Organizing Secretary, Dr. L. M. Khandagale, HoD, Physical Education, DCPE, Amravati (M.S.). The inaugural ceremony was compered by Asst Prof. Ashish Hatekar. The inauguration ceremony was enlightened by the words of Professor Rajneesh Kumar Shukla, Vice-chancellor, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, (Central University) Wardha. The Chief Guest of the function was Padmashri P.A.



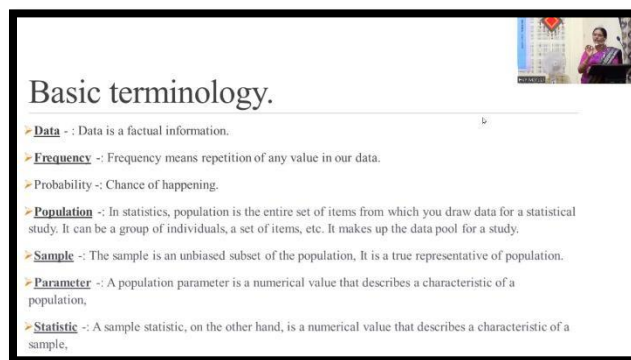
Vaidya Hon'ble Gen. Sec. Shree Hanuman Vyayam Prasarak Mandal, Amravati, Guest of Honor, Dr. Prasad A. Wadegaonkar, Pro Vice-Chancellor of Sant Gadge Baba Amravati University, Amravati, Dr. M. S. Chendke, Secretary, Shree Hanuman Vyayam Prasarak Mandal, Amravati. The introduction of the guests was presented by Dr. Anita Gupta.



Organizers were pleased to welcome everyone to the National Level Workshop on Applied Statistics for Research in Interdisciplinary Studies in Amravati, Maharashtra. This event would bring together leading researchers, academicians, industry professionals, speakers and experts on one platform. The informative discussions have highlighted solutions, achievements, trending topics and future strategies. DCPE and MGAHV constantly aim to showcase techniques, skills and the latest information in various fields such as physical education and sports, science, technology, environment, education, business, banking, finance, languages, history and much more. It helped participants explore speaking opportunities and make important connections.

The workshop was held in the hope to acquire the unparalleled knowledge of all the resource persons of the workshop and provide it to students. The advisory committee of the workshop consisted of Dr. S. P. Deshpande Principal and MoU Co-Ordinator, DCPE, Amravati, Dr. M. S. Chendke, Secretary, Shree HVPM, Amravati, Dr. U. N. Manjre, IQAC Co-Ordinator, DCPE, Amravati. Also, the organizing committee of the workshop consisted of the Programme Co-Ordinator, Dr. Aniket Anil Ambekar, MoU Co-Ordinator, Assistant Professor, School of Education, MGAHV, Wardha and Convener & Assistant Co-Ordinator, Sh. Pushpak Khonde, Assistant Professor, Physical Education, DCPE, Amravati.

The participants were advised to bring their laptops to get a hand on the practical applicability of the different software used during the lectures. The very first Session of the Workshop was conducted after lunch here the resource person was Dr. Seema Datey, Assistant Professor, DCPE, Amravati. Here participants learned the basics of Statistics. Following the next and the last



session of the First day by Dr. Shilpi Kumari Assistant Professor, School of Education, MGAHV (A Central University), Wardha where participants learned the Advance of Statistics.

The live telecast of the workshop was conducted through the Zoom meeting where the link was provided to all the online participants. Having this workshop in the blended mode provided a scope of learning to online participants as well as offline participants.

The second day had an amazing kickstart with a sense of enthusiasm and zeal for learning among the students. The first and the second session lectures were delivered by Dr. Vishal Deshpande, Associate Professor, Physical Education, S.B.E.S. College of Science, Aurangabad (M.S.). where the participants learned Applied Statistics moreover the application of Statistics in our day-to-day life and how to interpret Statistics in the field of research. The first two sessions of day 2 of the workshop by Dr. Vishal Deshpande gave an idea to the participants of the application of statistics in the field of research which gave a presumption to the participants of the further coming lectures. Workshop entered its third and fourth sessions after the lunch break, which were taken by Dr. P. V. Ubale, Professor and Head, Department of Statistics, G.S. Science, Arts & Commerce College, Khamgaon (M.S.). In those two lectures participants were taught about “Statistics: A Glory of Science” and “Testing of Hypothesis”. As a beginner one must be aware of the significance of the knowledge they have, that’s what participants witness in the third

Some Basic Facts

- Different types of Quantitative Research- Different types of Statistics
- Some research require only descriptive statistics (Survey Research)
- Some other research require both descriptive and inferential statistics (Correlational studies, prediction related studies, effectiveness related studies)
- The research which require inferential statistics tests the hypothesis
- When the sample is representative of the population or normally distributed we use parametric statistics under inferential statistics
- When the sample is not representative of the population or normally distributed, we use non-parametric statistics under inferential statistics.

Types of scales

Scale	Process	Data	Descriptive	Inferential
Ratio	True zero	Parametric	Mean, sd, pearson - r	T-test, ANOVA, ANCOVA
Interval	No true zero	Parametric	Mean, sd, pearson - r	T-test, ANOVA, ANCOVA
Ordinal	Ranked in order	Nonparametric	Median, quartile deviation, stanines, spearman's rho	Man-Whitney Wilcoxin
Nominal	classified and counted	Nonparametric	Mode	Chi-square, sign

Origin of Statistics

- The word statistics was first used by a German scholar Gottfried Achenwall in the middle of the 18th century
- Science of statecraft concerning the collection and use of data by the state
- The word statistics comes from the Latin word “Status”
 - Italian word “Statistia”
 - German word “Statistik”
 - French word “Statistique”
- All means a political state, and originally meant information useful to the state, such as information about sizes of the population (human, animal, products, etc.) and armed forces.
- Early Origins: Interesting and illuminating to note that statistical knowledge and probabilistic ideas were attributed to the kings and rulers mentioned in the great Indian epic, the Mahabharata, as is evident from the “King Bhagasuri wanting to flaunt his skill in numbers, estimates the number of leaves, and the number of fruits, on two great branches of a spreading tree.

Catching the context....

► Hypothesis :
A hypothesis states your predictions about what your research will find. It is a tentative answer to your research question that has not yet been tested. For some research projects, you might have to write several hypotheses that address different aspects of your research question.

Hypothesis Testing

A Hypothesis testing is a statistical method that uses a sample data to evaluate a hypothesis about a population

and fourth lectures of day two. On the same hand queries of the online participants were answered right after the lectures were completed.

Moving on to Day-3 6th of April, workshop resource person, Dr. Sagar Kuthe, Assistant Professor, Brijlal Biyani Science College, Amravati, (M.S.) on the “Practical Approach of Analysis with MS-Excel”. Following the lunch break first two sessions concluded with a very enthusiastic indulgence of the participants for the lecture. After the lunch break workshop went aboard again with the same energy and enthusiasm among the participants. The resource person for the last two sessions was Professor Shireesh Pal Singh, Department of Education, MGAHV (A Central University), Wardha. The participants were introduced to a very enlightening and informative knowledge base “Impact Factor, Citation and Peer-Reviewed Journal” which has its very own significance in the field of research. Impact factors and citations are a remarkably diverse part of the research. Throughout the lecture, participants had their queries regarding the respective topics which were further answered by the resource person. Day-3 successfully concluded with satisfactory feedback from the participants regarding the topics covered in the sessions throughout the day.

Interactive Session on

Practical Approach of Data Analysis with MS-Excel

Recourse Person

Dr. Sagar S. Kuthe
Assistant Professor & Head,
Department of Statistics,
Brijlal Biyani Science College,
Amravati

Date: 06-04-2023 Time: 9.00 am

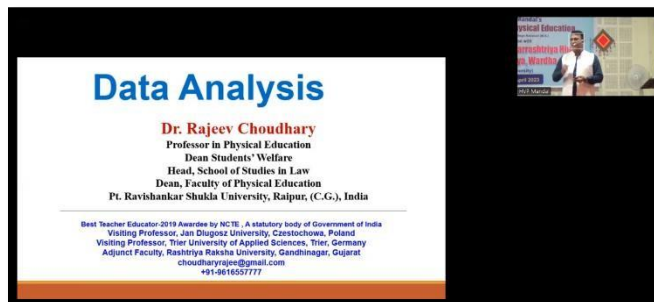
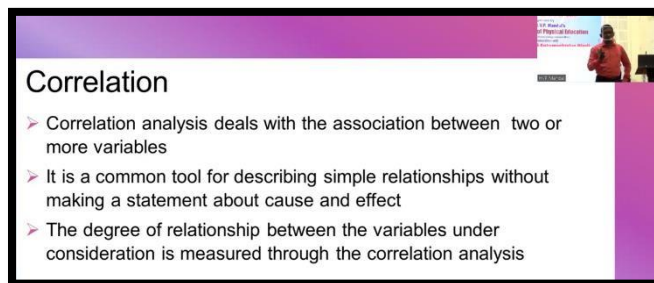
Venue
Degree College of Physical Education(A Multi-Faculty Autonomous College), HVPM, Amravati.

Indicators of Quality Research

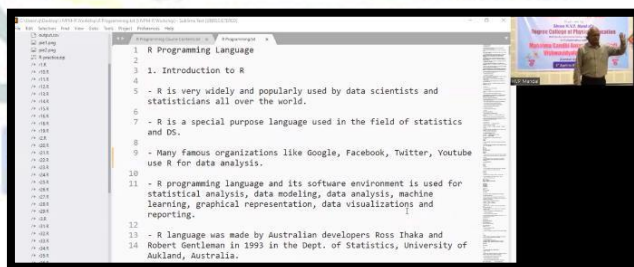
Shireesh Pal Singh, Ph.D
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MGAHV (Central University), Gandhi Hills, Wardha - 442001 (Maharashtra) INDIA
Mobile: +91-9888801146, 9410320265

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Day-4 7th April, the resource person for the upcoming lectures was Dr. Omji Gupta, Assistant Professor, Sant Guru Ghasidas Govt. P.G. College, Kurud, Dist. Dhantari, (C.G.) enlightened the participants with their Scopus of knowledge and Dr. Rajeev Choudhary, Professor in Physical Education, Dean Students' Welfare (DSW), Head, School of Studies in Law, Pt. Ravishankar Shukla University, Amanaka, Raipur, (C.G.). The first session of workshop day-4 was entitled to Dr. Omji Gupta referring to the topic “Statistics, “Correlation and Regression Analysis” which is in itself an emerging attraction in the field of research. Following the rest of the sessions by Dr. Rajeev Chaudhary; the topic- Data Analysis using SPSS. Both lecturers successfully delivered their lectures on their respective areas of interest concluding day-4 by providing the answers to all the participants offline and online as well.



The final and most important day of the workshop; was day-5. Till day-5 the enthusiasm and zeal of participants to learn statistics brought them straight through 12 sessions so far remaining with the 2 more sessions. On the final day of the workshop, Sh. Shrikant W. Pande, Director, Ctronics Infotech, Amravati (M.S.). Where he continued with the first two sessions of day-3 with the topic” Analysis of Data Using R-programming”. R-programming is a programming language through which statistical analysis is done these days. This was a great opportunity for all the participants to witness such an amazing and new technology for the purpose of statistical analysis in the field of research.



For the closing ceremony of the workshop President, Prof. Dr. S.P. Deshpande, Principal, DCPE, Amravati, Guest of Honor, Dr. Gopal Krishan Thakur Dean & Head, School of Education, MGAHV, Wardha and Special Guest Prof. Dr. Uday Manjre, IQAC Coordinator was present. Also, on the dice the Organizing Secretary, Dr. L. M. Khandagale, Workshop Co-Ordinator and Dr. Aniket Ambekar were also present. The ceremony was hosted by Dr. M.N. Burnase. The ceremony began with the welcome of the delegates. Dr. L.M. Khandagale

presented the report of the workshop. Thereafter feedback was given by one of the online participants Ms. Kiran Kumari, Research Scholar, Sports Biomechanics, Lakshmibai National Institute of Physical Education, Gwalior and from offline participants, Mr. Sumit R. Amlekar, Research Scholar, DCPE, Amravati on the workshop. Dr. Gopal Krishan Thakur also gave a short speech at the workshop where he mentioned the efforts taken by the organizing committee for making this workshop successful. He also explained the significance of human calculations as compared to artificial intelligence and software. Dr. S. P. Deshpande too presented his views on the workshop. The closing ceremony was concluded with the Vote of thanks given to Dr. Anita Gupta.



SAMPLES SURVIVAL COLLECTION PLANNING PROCEDURES PATTERNS RESEARCH



SHREE H.V.P. MANDAL'S DEGREE COLLEGE OF PHYSICAL EDUCATION, AMRAVATI

Report of One day Webinar on “Intellectual Property Awareness”

Shree H. V. P. Mandal's, Degree College of Physical Education and Director, Innovation, Incubation, and Linkages, SGBAU Research and Incubation Foundation, Sant Gadge Baba Amravati University, Amravati jointly organized One Day Webinar On Intellectual Property Awareness on the advent of World Intellectual Property Day on Thursday 27th April 2023

In the modern era, the tremendous increase in IP applications witnessed in recent years reflects the growing importance of technology and innovation in the global economy and our daily lives. From waking up on a Sleepwell mattress, having a cup of Nestle milk and Britannia bread for breakfast while watching a Sony TV, having a bath using Lux soap, wearing Peter England clothes, Bata shoes, and a Titan watch, driving a BMW car to the office, ordering lunch from Zomato, working on a Lenovo laptop and having a Nescafe coffee in the evening, a person is engulfed with intellectual properties from dawn to dusk.

To create awareness among students and teachers college organized a webinar on IP Awareness

In the Webinar, an Introductory Speech was given by D. P. Vaidya. *Science faculty in charge*, Assistant Professor, PGDCST, DCPE, HVPM. At the beginning of the session Honorable Dr. S. S. Sherekar, Director, Innovation, Incubation & Linkages, S.G.B.A.U. expressed her thoughts as the Chief Guest in the inaugural session of the one-day webinar.

Webinar President Dr. S. P. Deshpande, Principal, Degree College of Physical Education, Webinar Guest of Honor Dr. M. S. Chendke Vice Principal, Degree College of Physical Education, addressed the participants on the occasion.

The Webinar Keynote address speaker was Adv. Yogita Pawar, patent professional, NIPAM trainer. She elaborated on the concept of NIPAM. The National Intellectual Property Awareness Mission (NIPAM) is a Pan India mission launched by the GOI to create awareness about intellectual property rights among students. She explains how intellectual property increases innovation and supports creativity. Creativity which contributes to society, culture, and economic progress the priority. And how NIPAM encourages inventors, artists, and authors and ensures the sustainability of research and development. The opening session and concluding sessions of the Webinar were coordinated by Prof. Mohini Mohod. The question-answer Session was handled by Ms. D. S. Hirde. Finally, a Vote of Thanks was given by V. M. Jawade.

A total of 202 participants including students and faculty attended the Webinar.

You Tube Link: <https://www.youtube.com/watch?v=oNfCg2N2DeU>

