

**GOVERNMENT COLLEGE (AUTONOMOUS) RAJAHMUNDRY EAST GODAVARI**

**A BRIEF REPORT ON TWO WEEK ONLINE REFRESHER COURSE**

**TITLE: ADVANCED RESEARCH METHODOLOGY**

A Two-Week online Refresher Course is being organized jointly by Teaching-Learning Centre, Ramanujam College, New Delhi and Government College(A) Rajahmundry from

22-08-2022 to 05-09-2022. Through online mode

The Refresher course on Research Methodology may enlighten the young Researchers, Ph.D Scholars, Various teachers from different colleges. This course will be used for improving quantitative skills of teaching faculty and research scholars in both sciences and social sciences. It also helps the participants across disciplines to work on research.

A total of 93 participants registered for the course from all disciplines and from various colleges in Andhra Pradesh. The Online Refresher Course is strictly adhered to the Ministry of Education which comprises of

A. E-Tutorial : Video and Audio content in an organized form

B : Content, PDF, Text, e-books, illustrations, Video demonstrations, documents and discussion

Forum

C: Web Resources

D : Quiz

E: Assignments

An overall grade of 50% must acquire by the participants to complete the Refresher Course and accordingly grading will be given to the participants.

## **Day-Wise Schedule:**

**Day 1 & 2 : Monday & Tuesday – Dated 22-08-2022 to 23-08-2022**

### **Introduction to Research by Dr. Jaspreet Kaur**

Total four videos were uploaded, one quiz and one Assignment is uploaded with due date

The Day 1 lecture started with the introduction to Research and Research Methodology and Types. Dr. Jaspreet Kaur explained about Research Design and Types which consists of Data Collection and Data Visualisation, Analysis of Data and Techniques, Systematic Literature Review and Meta Data Analysis, Introduction to different Qualitative Research Methods, Developing an understanding about qualitative and quantitative data analysis.

In the first video, Dr. Jaspreet Kaur explained about six phases of Research where it consists of Introduction, Literature Review, Selection of Research designs, Data gathering, Data Processing and Analysis, Implications, Conclusion and Recommendations. She pointed out about the six phases are to be covered while writing a research paper. Also, she explained that there must be justification of a research and explained about critical analysis. She discussed on a paper on Hospitality Marketing. She gave many examples on Psychological methods and insisted to read more number of newspapers at least 200. The scope of the research will be given in the last paragraph of introduction or at the end of the topic.

She explained about Rationale/Gap which is a brief analysis or summary of the problems identified relating to the project or issue to be addressed by the project. Dr. Kaur asked to study grade journals (Scopus) and google scholar demo and most cited papers and scope of future studies and at least papers to identify the gap in research

In the second video, Introduction to Research Design (Part-1) Research Methodology is given in Chapter no. 3. Research design is like a blue print for the researcher. Research design indicates the steps that will need to be taken and the sequence they will occur. Research design is based on the need of the study. She explained about Explanatory Research in a specified manner and comparative studies by using (two means group and Variance) and also explained about conclusive Descriptive Design

In Video 3, Introduction to Research Design, Part-2, Dr. Kaur explained about conclusive and Causal Research cause and effect relation and experiment of two

groups. Examples were given and she explained the need of statistical tools and models and hypothesis. Also bivariate and multivariate causal analysis can be done.

In Video 4, Introduction to Research Design, Part-3, She explained about a research paper on Multivariate Analysis with a title “ Attitude of Consumers towards Online Shopping” which relates to quantitative analysis. She showed free websites for Research like Google scholar, Feedly, Shodhganga infolibnet.ac.in, Science open.com, ERIC-eric.ed.gov and sci.hub.tw, Research gate.

Data Collection for Exploratory Research was discussed and Secondary Data (qualitative and Quantitative) and Projective Techniques were explained. Open ended questions, Survey-questionnaire, Observation, Experimentation etc. She suggested some books like C.R.Kothari, Paers related to research in google and mixed methods.

**Day-3 Wednesday –Dated 24 -08-2022**

**Plagiarism by Dr. Vibhash Kumar, Associate Professor at Jindal Global Business School, O.P Jindal Global University**

Total 1 Six videos were uploaded, one quiz and one Assignment is uploaded with due date

In this session Dr. Vibhash Kumar explains the meaning of plagiarism as an act of dishonesty and a breach of ethics. It involves using someone else's work as one's own. It also includes Data Plagiarism and Self-Plagiarism. Referring to the UGC Notification, 2020 about the reproduction, in part or whole, of one's own previously published work without adequate citation and proper acknowledgement and claiming the most recent work as new and original for any academic advantage amounts to text-recycling also known as Self-Plagiarism and is not acceptable. He further explains that properly citing the argument is the only way to ethically use the information as well as let the readers know of the authentic source of the information or argument made. With the help of citations, readers can also find out more information on the same topic Attribution

In the first Video, Plagiarism Prevention-Part-1 , quotation, referencing and citation. He explained about the Quoting a Source, a direct quote must be included in quotations. Use ellipses, omitted texts and brackets to show added phrases Quotes must mention the person name and be cited using the format specified. He explained about paraphrasing a source and explained about Grids.

In the second video of Plagarism Prevention-Part-1 Some examples were given regarding Plagarism and Referencing cites and some versions.

In the third video, Plagarism Prevention Part-2 He explained about the usage of Google Scholar and how to use the articles and how to cite the references and publications.

In the fourth video, Plagarism Prevention Part-3 He explained the Plagarism concept by taking original examples for plagiarism prevention

In the fifth Video, Plagarism Prevention Part-4, He explained about the incorporation of original source into our papers in order to prevent plagiarism and citation of the papers

In the Sixth video, Plagarism Prevention Part-5, He explained about the Turnitin Reports and interpreting Turnitin Reports.

In the Seventh video, Plagarism Prevention Part-6, Analysing the Turnitin Reports by taking an example was explained in this video

**Day-4-Thursday – Dated 25 -08-2022**

**Effective Research Writing & Reference Management by**

**Dr. Vinhash Kumar, Associate Professor at Jindal Global Business School,  
O.P Jindal**

**Global University**

Total eight videos were uploaded, one quiz and one Assignment is uploaded with due

Date

In this Session, Dr. Vibhask Kumar outlines the different steps related to writing an effective research article. Summarizing the important elements of writing, he explains the need to follow a systematic structure for the writing process. For this, he deliberates upon the best practices that can be followed to write an effective research article. The best practices discussed emphasizes on the need to have an author for the research article. This become pertinent if a scholar is working in a research project. Further Dr. Kumar emphasizes on the need of starting the writing process at the stage of collecting

data/experimentation/observing and analyzing information. This not only helps building an argument but also let the researcher engage with new ideas that may flow while doing the research or experiment. Similarly, the session discusses the importance to outline a working title and a basic format of the paper to be able to divide your arguments into comprehensible sections.

In the first Video Dr. Vibhash Kumar explained about Research Publications and its requirement for PhD submission and Rationale of Research.

In the second video, he explained about the Outlining steps in effective research writing

In the third video also he explained the importance of effective research writing about an article paper or thesis.

In the fourth video, Reference Management is explained regarding the research publications.

In the fifth video, Reference Management is continued and different citation styles used for social sciences, sciences and humanities were shown

In the sixth video Reference Management is explained elaborately in publishing papers

In the seventh video Outlining steps in research writing was discussed and shown

In the eighth video, he explained about the Advanced Search in Google Scholar

**Day-5 Friday – Dated 26 -08-2022**

**-Quantitative Data by Prof. C.S. Sharma is a distinguished educator , Professor at Shri Ram College of Commerce, University of Delhi**

Total four videos were uploaded, one quiz is uploaded with due Date

Prof. C. S. Sharma is a distinguished educator with broad experience in India and overseas in teaching program development including enriched digital content, institution building, financial performance and business development. He talks about the research methods pertaining to Quantitative Data. The session outlines the meaning of numerical data, its nature and scope, the way it is gathered, observed and analyzed. The lecture probes into the potential of expanding quantitative analysis to form a deeper understanding of an efficient and effective research writing.

In the first Video, Prof. C.S. Sharma explains about qualitative and quantitative analysis for doing research and understanding research in different areas.

In the second Video, he explained about the need for measurement in the measuring concept

In the third video, the indicators and dimensions regarding Quantitative Research was explained and the analysis.

In the fourth video, he explained about the Validity of a measure and Political Orientation.

**Day-6 – Saturday – Dated 27 -08-2022**

### **Qualitative Analysis by Dr. Jaspreet Kaur**

One Video is uploaded, one quiz is uploaded with due date

The session discusses the methods of Qualitative Analysis which integrates the techniques of Software Packages majorly focused on the interpretability of information with a human centered approach. Primary data sets from the fields of social sciences, management and sciences will be used for exploring the computationally innovative methods and technologies and improving qualitative skills of teaching faculty and research scholars in both sciences and social sciences. The participants will be trained to understand the ways of identifying a research problem and effectively analyze, present the data and its outcome.

In the 5th video, Dr Jaspreet Kaur explains about a case study and scale development regarding qualitative analysis in doing research.

**Day-7-Sunday-Dated 28-08-2022---e-certificate form for the participants was given**

**Day-8-Monday--Dated -29-08-2022 –**

### **Publishing Journal Article by Dr. Nikhil Kumar Rajput**

Total thirteen videos were uploaded, one Assignment is uploaded with due Date

In this session, Dr. Rajput gives significant insights about publishing a journal.

Publishing a journal article is a process which can be understood using various online

sources available. The session elucidates on the underlying idea of publications by outlining the aspects of finding the appropriate journals and its related information about sharing and promoting the publication. He also discuss about the significance of impact factors and h-index in research publications.

In the first video, Dr. Rajput explained about various research method swchich we use in our research work and selection of a journal . He explained about the UGC Care list journals which are recognized by UGC and how to publish ina journal

In the second video , he explained how to search journals and how to cote by showing the journals.

In the third video, he explained about Web of Science and Scopus journals and how to register for web of science journals.

In the fourth video, he explained about SJR (SCIMAGO) Journal and Country Rank. This shows various journals with scopus and h-index information and number of citations for each journal for various disciplines.

In the fifth Video, Review of various Journals and information related to the journals is shown and discussed.

In the sixth video he showed various journals and number of citations for different years.

In the seventh video, he explained about open accesss journals and Open access publishers and its names.

In the eighth video, he explained about the selection of journals for different areas

In the ninth video, he explained how to explore journals in web of science and how to sign in with our ORCID account

In the tenth video, he explained about the impact factor of a journaland the calculation of impact factor for a journal and for the articles published by means of citations

In the eleventh video, he explained about various journals and their related information

In the twelvth video, he explained about peer reviewed journals and its background and its process.

In the thirteenth video, he explained in an overall manner of publishing journal in web of science, ugc care list and scopus journals.

**Day-9-Tuesday – Dated 30-08-2022**

**LATEX by Dr. Nikhil Kumar Rajput**

Total Seven videos were uploaded, one Quiz t is uploaded with due Date

Dr. Nikhil Kumar Rajput has structured his lecture across two hand on session spread across two days. Describing LaTeX as an application which can simplify text typesetting not only for science discipline but also humanities and social sciences, he will explain the interface of the application. He will also demonstrate the use of interface of writing research paper/ thesis and will explain its interface.

Total Seven videos were uploaded, one Assignment t is uploaded with due Date

In the first Video, Dr. Rajput explained about Latex . He explained Latex is a document system preparation and it is having several features and can prepare high quality documents. It can be studied through offline and online. Advantages and Disadvantages of Latex are discussed

In the second video, He explained about Latex through online mode using overleaf.com. How to register in overleaf.com and its significant options and features.

In the third video, document changing and book writing or research paper writing in Latex is explained through an example.

In the fourth video , text document in more reliable format is explained and document class and sections are explained.

In the fifth video document class is explained elaborately and finding the name of the document through google for sending any paper to conference

In the sixth video how to make section and different options of document class , pasting the content etc

In the seventh video, article is shown where the author names and institute names are to be projected.

**Day 10-Wednesday – Dated 31-08-2022 –**

**LATEX continue by Dr. Nikhil Kumar Rajput**

**Total nine videos were uploaded and one quiz and one Assignment is uploaded with due date**

In the first video, Dr. Rajput continued the Latex software handling session and explained more options in Latex document preparation

In the second video also Latex document is explained

In the third video, also the document preparation is continued to prepare a valid document in Latex

In the fourth video, how to compile and recompile a document is explained through Latex software

In the fifth video, preparation of document in short cut method is explained through Latex software

In the sixth video, capturing of images and tables were explained through Latex software

In the seventh video, sharing the document to different authors through email id, and whoever receive can edit the document is explained

In the eighth video, Dr. Rajput explained about different templates and different commands for writing an article or a book etc.

In the ninth video, he explained about Latex document again and gave full explanation regarding all the concepts in Latex

**Day-11- Thursday –Dated 01-09-2022 –**

**Systematic Review of Writing by Dr. Jaspreet Kaur**

**Total two videos were uploaded and one quiz and one Assignment is uploaded with due date**

Dr. Jaspreet kaur discusses the meaning of systematic literature and meta analysis. Referring to it as a consolidation of literature, Dr. Kaur explains the importance of

systematic literature review and the rationale of using it for writing a research paper. She will further talk about the differences between a conventional literature review, systematic literature review and meta analyses. The detailed process of conducting systematic literature review and the area where meta analysis can be done will be explained using a case study. Further the session will detail on the evidence based minimum set of reporting in Systematic literature review and Meta analysis

In the first video, Dr. Kaur explained about systematic review and meta analysis in writing a paper . Systematic review studies all possible studies related to a given topic and design and review and analyses the result. Here the secondary data is more responsible and used. Also narrative versus systematic and meta analysis is explained thoroughly

In the second video, Systematic review is explained through a example. Correlational study is explained and the analysis is explained by calculating variance, Fisher value etc

**Day-12-Friday-Dated 02-09-2022**

**- OER and Creative Common Licenses by Dr. Nikhil Kumar rajput**

**Total Six videos were uploaded and one quiz was uploaded with due date**

The session discusses about Open Educational Resources and its application in making teaching learning more effective. Many faculty already use OER in their classes showing You Tube videos, using worksheets created and shared by other faculty and using online simulations as learning activities. Dr. Rajput explains that one can use Wikipedia Gutenberg.org, MIT Open CourseWare, cnx.org, open.edu are OER's which can assist in the creation of MOOCs using their available content online.

The final session elucidates about the Creative Common License . Dr. Rajput explains that Creative Commons copyright licenses and tools forge a balance inside the traditional “ all rights reserved” setting that copyright law creates. The tools give everyone from individual creators to large companies and institutions a simple, standardized way to grant copyright permissions to their creative work. It facilitates a pool of content that can be copied., distributed, edited, remixed and built upon all within the boundaries of copyright law.

In the first video , Dr Rajput explained about Open Educational Resources and how to use in our course or teaching. Teaching, Learning Sources are explained in public

domain without any license. It contains full courses, audios, images, videos etc which we cannot acquire everywhere

In the second video, open educational sources were shown which are used for student course guide and multimedia and how to download the documents and the material which helps us for our teaching etc with examples.

In the third video, Dr Rajput explained Open Educational Resources elaborately with clear cut examples.

In the fourth video, how the OER can be used in our subject is explained. If we want to copy any material we must take permission of the author for copyright. If we want to use any material without any permission or without any attribution also OER is used.

In the fifth video, Creative common license how to use the copied images in our paper without any attribution is explained. Some examples related to this is explained

In the sixth video, How to obtain creative common license is explained. License features are explained and selection of license is also shown.

**Day-13-Saturday-Dated 03-09-2022**

### **Practicing Advanced Searching Tools and the use of Reference Management Tool**

**by ZOTERO by Ms. Bhavya Ahuja**

**Total four videos were uploaded and one quiz was uploaded with due date**

In this session, Ms. Bhavya Ahuja speaks about Advanced Searching Tools and also demonstrates the use of Reference Management tool Zotero.

The first four modules will focus on Advanced search Tools. The session will information on practicing advanced searching through Google scholar Ms. Ahuja will explain the method to reduce results and how to get more relevant results through an example.

In the next session, Ms. Ahuja will discuss the use and importance of Zotero, an important reference management tool. She will detail about the tools and functions of the applications and how it can be integrated with other applications.

In the first Video Several searching tools were explained, how to search tools in Google Scholar were also explained. Number of results can be searched through Google Scholar

In the second video, Advanced Searching tools were explained very deeply to facilitate our research

In the third video Searching Journals in Google is explained through specifying a name of journal, and to search papers etc.

In the next session, Ms. Bhavya Ahuja explained about Zotero software in Reference Management and hands on experience on Zotero was shown.

In this session five videos, one quiz and one Assignment is uploaded with due date

While Researching we read and use a number of resources created by other academicians. This material can be a paper, an image, an algorithm, thesis or anything else. We may use them in our research and it is extremely important that while presenting the research in any form we provide due reference to the source. Manual referencing is a tedious and time consuming task.

Referencing tools often called reference management software, citation tool, bibliographic manager etc can be immensely useful in organization and formatting of references to be added in artifacts like papers, articles and thesis. There are several such tools available like Mendeley, JabRef, EndNote and Refworks. These softwares have helped in creating library of these references which can be used any time. In this module, Zotero tool is being focused.

In the first video Reference management software is being explained and various citation tools and bibliographic manager is explained.

In the second video, formatting of references in papers, articles, thesis etc were explained.

In the third video, Creating our own library is explained and the process is shown clearly with examples

In the fourth video Several other tools like Mendeley, JabRef, EndNote and Refworks were explained to create library

In the fifth video software tool Zotero is being focused and explained how to add references, bibliography to our paper.

**Conclusion:**

The two week refresher course was organized excellently with total 93 participants from govt colleges in AP . From this two week Refresher course, the participants were benefited with good sessions regarding Research, Plagarism, Open Educational Resources, Systematic Review, Writing Effective Research writing and Latex and Zotero Softwares in detail.

In this course, each and every day feedback is collected , quizzes and Assignments were given with due date and Discussion forum is also given to post any doubts regarding the session.

The course ended on September 5<sup>th</sup> with overall quiz for 35marks and overall feedback

**DOCUMENT PREPARED BY Dr. N.MADHAVI, ORGANIZING SECRETARY**

**TWO WEEK ONLINE REFRESHER COURSE**

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