

## PG Research Methodology Part - I

Date: 17.10.2020 - 23.10.2020

Timing: 9.30 - 12.30 PM (3 hours/days) = 18 hours

sl.no	TOPIC	Thematic name	Objectives	Faculty	time	total time
<b>DAY 1</b>		<b>17.10.2020, Saturday</b>		<b>Conceptualizing Research</b>		
<b>Inauguration</b>					09.30- 9.45 AM	15 minutes
1	Introduction to PG	"Dos and Donts" of PG research	1. briefing MCI guidelines on PG research 2. Summarize VMRF guidelines on PG research 3. Internal and external Research funding options	<b>Dr.P.F.Kotur,</b> Dean	09.45- 10.15 AM	30 Minutes
<b>Tea Break</b>					<b>10.15 - 10.30</b>	<b>15 minutes</b>
2	Formulating Research question and hypothesis	"Ask and speculate"	Define: 1. Goals, aims, objectives 2. Formulating a Research question 3. Developing a hypothesis 4. Develop alternate and null hypothesis	<b>Dr. Vishnu Bhat,</b> Director Medical Research	10.30 -11.30 AM	60 Minutes
3	WS with plenary on Formulating Research question and hypothesis			Team CM+IRC	11.30 - 12.30 PM	60 minutes
<b>DAY 2</b>		<b>19.10.2020, Monday</b>		<b>Literature review and reference</b>		
<b>Recap of previous day's sessions</b>					09.30 -09.35 AM	5 minutes
4	Literature search	"Rolling the milestones"	1. explore the art of literature search 2. Enlist the available literature sources 3. Various search engines 4. Organizing the search into a review	<b>Dr. T. Prasad,</b> Assoc Prof, CM	09.35 -10.05 AM	30 minutes
5	Live Literature search workshop	"Lets search together"	1. search using different search engines 2. understanding pubmed search	Team CM	10.15 - 11.15 AM	70 minutes
6	Referencing	"Rendering the respect researchers"	1. Understand What is referencing and cross-referencing 2. Learn Various referencing styles with hands-on 3. Enlist Various referencing machines 4. sensitize about Plagiarism	<b>Dr. Pushpa Kotur,</b> Prof, OG	11.15 - 11.45 AM	30 minutes
7	WS with plenary on Referencing			Team CM	11.45 - 12.30 PM	45 minutes



		Recap of previous day's sessions			09.30 -09.35 AM	5 minutes
8	Descriptive studies	"Describe in Time, place and person"	<ol style="list-style-type: none"> <li>1. Enlist and classify study designs</li> <li>2. Indications for Descriptive studies</li> <li>3. Description in terms of time, place and person</li> <li>4. Seasonal and periodic fluctuations</li> <li>5. Formulation of hypothesis</li> </ol>	<b>Dr. Nishanthini,</b> <b>Asst Prof, CM</b> <b>Dr. Oudeacoumar,</b> Professor & HOD, DVL	09.35 -10.15 AM	40 Minutes
9	Analytical studies	"Compare and contrast"	<ol style="list-style-type: none"> <li>1. Enlist Steps in case-control study</li> <li>2. Indications for Analytical studies</li> <li>3. Enlist Steps in cohort study</li> <li>4. Understanding Odds ratio</li> <li>5. Understanding Relative risk</li> </ol>	<b>Dr. V. Sudha,</b> Asst Prof, CM <b>Dr. Jawahar,</b> Professor & HOD, Pathology	10.15-10.45 AM	30 Minutes
<b>Tea Break</b>					<b>10.45 - 10.55</b>	<b>10 minutes</b>
10	Experimental studies	"Intervene and watch"	<ol style="list-style-type: none"> <li>1. Why RCT</li> <li>2. Steps in RCT</li> <li>3. Types of trials</li> <li>3. CTRI registration</li> <li>5. Number needed to treat</li> <li>6. Blinding and allocation concealment</li> </ol>	<b>Dr. Arun Daniel,</b> Assoc Prof, CM  <b>Dr. Ilankathir,</b> Assoc Prof, Anatomy	10.55-11.30 AM	35 Minutes
11	WS with plenary on study designs			Team CM+IRC	11.30 - 12.30 PM	60 minutes
<b>DAY 4 21.10.2020, Wednesday</b>						
<b>Study Variables, Sampling and sample size</b>						
<b>Recap of previous day's sessions</b>						
					09.30 -09.35 AM	5 minutes
12	Measures of disease frequency	"SI Units of research"	<ol style="list-style-type: none"> <li>1. Explain concept of central tendency and Normal distribution</li> <li>2. Concepts of Mean, Median, Mode</li> <li>3. Rate, Ratio and proportion</li> </ol>	<b>Dr. Vignesh,</b> Asst Prof, CM  <b>Dr. Vithiavathi,</b> Professor & HOD, General Medicine	09.35 -10.00 AM	25 Minutes
13	Outcome variables	"that which varies in research"	<ol style="list-style-type: none"> <li>1. Research outcomes</li> <li>2. Types of variables</li> <li>3. Types of scales</li> <li>4. Type of questions</li> <li>5. Concept of questionnaire development</li> </ol>	<b>Dr. Nishanthini,</b> Asst Prof, CM  <b>Dr. Mahalakshmi,</b> Dean-HPE	10.00-10.30 AM	30 Minutes
<b>Tea Break</b>					<b>10.30 - 10.40</b>	<b>10 minutes</b>
14	Sampling Techniques	"One piece to taste"	<ol style="list-style-type: none"> <li>1. Concepts of sampling frame, sample and population</li> <li>2. Differentiating Probability and Non Probability sampling methods</li> <li>3. Sampling errors</li> </ol>	<b>Dr. Arun Daniel</b> Assoc Prof, CM	10.40-11.05 AM	25 Minutes
15	Sample size calculation	"Whats that magical number?"	<ol style="list-style-type: none"> <li>1. brief Sample size calculation for different study designs</li> <li>2. Concepts of Power of the study</li> </ol>	<b>Dr. Arun Daniel</b> Assoc Prof, CM	11.05 - 11.30 AM	25 Minutes
16	WS with plenary on sampling and questionnaire development			Team CM+IRC	11.30 - 12.30 PM	60 minutes