

## Advancing Understanding of Research for AYUSH (AURA) - Batch 1 Schedule

| Session No: | Session Title                               | Topics Covered                          | Time              | Additional Student Investment time | Resource Person  | Date of session    |
|-------------|---|---|-------------------|------------------------------------|------------------|--------------------|
| 1           | <b>Introduction to Research Methodology</b> | General Introduction, Course structure  | <b>15 minutes</b> | 75 mins                            | Dr Sarin NS      | August 12, 2023    |
| 1.1         |   | Exposure and Outcome                    | <b>15 minutes</b> |                                    |                  |                    |
| 1.2         |   | Research Question and Objectives        | <b>30 minutes</b> |                                    |                  |                    |
| 1.3         |   | Variables                               | <b>10 minutes</b> |                                    |                  |                    |
|             |   | Interaction                             | <b>20 minutes</b> |                                    |                  |                    |
| 2           | <b>Conducting Research-Quantitative:1</b>   | Quantitative Study Designs              | <b>35 minutes</b> | 180 mins                           | Dr Uma Vasudevan | August 19, 2023    |
| 2.1         |   | Population and Setting                  | <b>15 minutes</b> |                                    |                  |                    |
| 2.2         |   | Sampling, Sample size calculation       | <b>20 minutes</b> |                                    |                  |                    |
| 2.3         |   | Data Collection Methods (Quantitative ) | <b>20 minutes</b> |                                    |                  |                    |
| 3           | <b>Conducting Research-Qualitative</b>      | Introduction to Qualitative studies     | <b>10 minutes</b> | 120 mins                           | Dr Sarin NS      | September 02, 2023 |
| 3.1         |   | Qualitative Study Designs               | <b>20 minutes</b> |                                    |                  |                    |

|     |   |   |                        |          |                      |                     |
|-----|---|---|------------------------|----------|----------------------|---------------------|
| 3.2 |   | Qualitative study tools, data collection methods                  | <b>30 minutes</b>      |          |                      |                     |
| 3.3 |   | Interaction (Quanti + Quali)                                      | <b>30 minutes</b>      |          |                      |                     |
| 4.  | <b>Structuring Research</b>                     | Study Tool-Validity and Reliability- I and II                     | <b>20 minutes</b>      | 100 mins | Dr Sarin NS          | September 09, 2023  |
| 4.1 |   |   |                        |          |                      |                     |
|     |   | Bias, Confounding and Chance                                      | <b>20 minutes</b>      |          |                      |                     |
| 4.2 |   | Ethical Principles in Research                                    | <b>45 -60 minutes</b>  | 90 min   | Dr. Skanthesh. L     | September 16, 2023  |
| 4.3 |   | Research Protocol   | <b>30 min</b>          | 45 min   | Dr Uma Vasudevan     | September 23, 2023  |
|     |   | Interaction   | <b>20 min</b>          |          | &<br>Dr Sarin NS     |                     |
| 5   | <b>Quantitative Data Analysis ( Statistics)</b> | Introduction  | <b>10 min</b>          | 120 mins | Dr Jeby Jose Olikkal | September 30 , 2023 |
| 5.1 |   | Descriptive Statistics  | <b>25 minutes</b>      |          |                      |                     |
| 5.2 |   | Inferential Statistics  | <b>25 minutes</b>      |          |                      |                     |
| 5.3 |   | Regression  | <b>30 - 45 minutes</b> | 60 min   | Dr Jeby Jose Olikkal | October 07, 2023    |
|     |   | Interaction   | <b>15 minutes</b>      |          |                      |                     |
| 7.  | <b>Qualitative Data Analysis</b>                | Introduction  | <b>10 mins</b>         |          | Dr. Sarin NS         | October 14, 2023    |
| 7.1 |   | Organising and categorising data - Open, axial, selective codings | <b>20 mins</b>         |          |                      |                     |
| 7.2 |   | Analysis approaches -   | <b>40 mins</b>         |          |                      |                     |

|     |  |   |            |          |                      |                   |
|-----|--|---|------------|----------|----------------------|-------------------|
|     |  | Content analysis, Thematic analysis, Grounded theory , Narrative analysis |            |          |                      |                   |
| 7.3 |  | Interaction   | 20 mins    |          |                      |                   |
| 8.  | Literature Review  | Introduction  | 10 minutes | 120 mins | Dr Uma Vasudevan     | October 21, 2023  |
|     |  | Databases and Search strategies   | 20 minutes |          |                      |                   |
|     |  | Literature search using PubMed  | 40 minutes |          |                      |                   |
|     |  | Interaction   | 20 minutes |          |                      |                   |
| 9.  | Referencing  | Introduction to Mendeley (Web)  | 10 minutes | 120 mins | Dr Jeby Jose Olikkal | October 28 , 2023 |
|     |  | Installation and Features   | 10 minutes |          |                      |                   |
|     |  | Creating Reference Library  | 30 minutes |          |                      |                   |
|     |  | Plugins   | 10 minutes |          |                      |                   |
|     |  | Citation and Referencing  | 20 minutes |          |                      |                   |
|     |  | Interaction   | 10 minutes |          |                      |                   |
| 10. | Research Proposal Presentation   |   |            |          |                      | November 04, 2023 |
|     | Students shall present their research topics before the panel of teachers and other participants |   |            |          |                      |                   |