

**ICAR-Indian Institute of Spices Research,
Marikunnu PO, Kozhikode**

PME/IISR/11 (09) 2021

8 February 2022

CIRCULAR

As per the guidelines of University of Calicut, course work for newly joined PhD students at ICAR-IISR, Kozhikode is commencing on 22-February 2022. The schedule for classes of subject experts is enclosed herewith. All the concerned PhD Research Scholars are requested to attend the course work without fail.

This is issued with approval of the Director.

-Sd-
C Sarathambal & Sharon Aravind
(Course coordinators)

Syllabus for Paper I Research Methodology

Date	Time	Topic	Faculty	Venue
22-2-22	10.00 – 1.00 pm	Digitalization of Field Data	Dr. M Elangovan, Principal Scientist, ICAR-IIMR-Hyderabad	Online
22-2-22	2.00-3.00pm	Visualising science for deeper insights and better outreach	Dr. Santhosh J Eapen, Head, Division of Crop Protection ICAR -IISR, Kozhikode	Online
22-2-22	3.00-4.00pm	Introduction to R	Ms. Sona Charles Scientist (Bioinformatics) ICAR- IISR, Kozhikode	Online
23-2-22	10.00 - 1.00 pm	Statistical protocols for field experiments and data analysis	Dr. J Sreekumar, Principal Scientist, ICAR-CTCRI, Thiruvananthapuram	Online
23-2-22	2.00 – 2.40pm	MS Excel – Tool for Experimental Database	Dr. M Elangovan, Principal Scientist, ICAR-IIMR, Hyderabad	Online
23-2-22	2.45 - 4.30pm	Modern statistics through SAS and R- ethics and method of data collection	Dr. Prabhu Govindasamy, Scientist (Agronomy) ICAR- IARI, New Delhi	Online
24-2-22	10.0-11.00am	AI and drone technology for agriculture	Dr. Vijay Singh, Assistant Professor of Weed Science Virginia Tech,USA	Online
24-2-22	11.30 – 12.30pm	Introduction to DIVA-GIS: Diversity Analysis	Dr. M Elangovan, Principal Scientist, ICAR-IIMR, Hyderabad	Online
24-2-22	2.15pm - 3.30pm	MS Access – Tool for Connecting Database	Dr. M Elangovan, Principal Scientist, ICAR-IIMR, Hyderabad	Online
25-2-22	2.00-3.00pm	Director's address	Dr. J Rema, Director ICAR- IISR, Kozhikode	Committee room
26-2-22	2.00-3.00pm	Laboratory bio safety (L)	Dr. A Jeevalatha	Central facility
2-3-22	2.00-4.00 pm	Colorimetry and spectrophotometry (L&P)	Ms. R Sivaranjani	-do-
3-3-22	2.00-4.00 pm	Chromatography- principles and types(L&P)	Dr. N K Leela	-do-
4-3-22	2.00-4.00 pm	Electrophoresis: theory and types(L&P)	Dr. K Anees	-do-

7-3-22	2.00-4.00 pm	Methods of Molecular Biology (L&P)	Dr. P S Divya	-do-
8-3-22	2.00-4.00 pm	Bioinformatics- analysis of molecular data (L&P)	Ms. Sona Charles	-do-
9-3-22	2.00-4.00 pm	Tissue culture- principles methods and applications (L&P)	Dr. Sharon Aravind	-do-
10-3-22	2.00-4.00 pm	Autoradiography, immunofluorescence and ELISA(L)	Dr. Al Bhat	-do-
11-3-22	2.00-4.00 pm	Microscopy and micrometry (L&P)	Dr. C N Biju	-do-
14-3-22	2.00-4.00 pm	Electron microscopy: Principles and methods of TEM and SEM (L)	Dr. C Sarathambal	-do-
15-3-22	2.00-4.00 pm	Methods in microbiology (L&P)	Dr. C Sarathambal	-do-
16-3-22	2.00-4.00 pm	Introduction to nematology (L&P)	Dr. C Sellaperumal	-do-
17-3-22	2.00-4.00 pm	Statistical analysis using Excel (L&P)	Mr. K Jayarajan	-do-
18-3-22	10.0-11.00 am	Collection and compilation of scientific literature (L)	Dr. S. Nithya, Scientist (B), CWRDM	online
18-3-22	2.00-3.00 pm	Research and Publication Ethics (RPE) (L)	Dr. S. Nithya, Scientist (B), CWRDM	online
21-3-22	2.00-4.00 pm	Principles and methods of digital photography (L&P)	Mr. A Sudhakaran	ATIC

Paper II Botany/Biotechnology/Zoology

5 credits	Plant pathology	Dr. AI Bhat& Dr. R Praveena	Concerned lab
5 credits	Agronomy	Dr. CK Thankamani	Concerned lab
5 credits	Nematology	Dr. Santhosh J Eapen & Dr. C. Sellaperumal	Concerned lab
5 credits	Microbiology	Dr. C. Sarathambal & Dr. TE Sheeja	Concerned lab