


TIME TABLE

M.Phil/Ph.D. Course Work (2020)

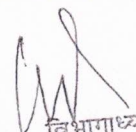
Venue: Room No. 19
 Deptt. of Zoology

w.e.f. 12-02-2020

Day	Date	Topic	Teacher	Paper	Time
Wed	12.02.2020	Philosophy of Rene Descartes Measurement; sensitivity, accuracy, precision and specificity. The limits and range of measurement in different systems	MMC	Paper I	2:00 PM - 4:00 PM
Wed	12.02.2020	Colorimetry; Spectrophotometry	RKN	Paper II	4:05 PM - 6:05 PM
Thu	13.02.2020	Philosophy of Rene Descartes Measurement; sensitivity, accuracy, precision and specificity. The limits and range of measurement in different systems.	MMC	Paper I	2:00 PM - 4:00 PM
Thu	13.02.2020	Image Acquisition and Analysis	RR	Paper II	4:05 PM - 6:05 PM
Fri	14.02.2020	Researching a scientific problem; defining aims & objectives, hypothesis generation, validation and interpretation of data.	RS	Paper I	2:00 PM - 4:00 PM
Fri	14.02.2020	Electrophoresis; MALDI-TOF; LCMS (Mass spectrometry)	MMC	Paper II	4:05 PM - 6:05 PM
Mon	17.02.2020	Basic and applied research problems, translational approach.	AS	Paper I	2:00 PM - 4:00 PM
Mon	17.02.2020	Microscopy: Bright field; fluorescence; confocal	RR	Paper II	4:05 PM - 6:05 PM
Tue	18.02.2020	Communication skills (Poster and oral)	RR	Paper I	2:00 PM - 4:00 PM
Tue	18.02.2020	FACS	AS	Paper II	4:05 PM - 6:05 PM
Wed	19.02.2020	Good laboratory practice; Safety and bio- and radio- hazards, disposal of biological and chemical wastes.	DKS	Paper I	2:00 PM - 4:00 PM
Wed	19.02.2020	Immunological techniques	GL/SM	Paper II	4:05 PM - 6:05 PM
Thu	20.02.2020	Good laboratory practice; Safety and bio- and radio- hazards, disposal of biological and chemical wastes	DKS	Paper I	2:00 PM - 4:00 PM
Thu	20.02.2020	Electrophoresis; MALDI-TOF; LCMS (Mass spectrometry)	MMC	Paper II	4:05 PM - 6:05 PM
Fri	21.02.2020	Acknowledgement of contributions, authorship issues; IPR	YS	Paper I	2:00 PM - 4:00 PM
Fri	21.02.2020	Preparative Centrifugation	MMC	Paper II	4:05 PM - 6:05 PM
Mon	24.02.2020	Accuracy of liquid transfer.	SBM	Paper I	2:00 PM - 4:00 PM
Mon	24.02.2020	SEM and TEM	RKN	Paper II	4:05 PM - 6:05 PM
Tue	25.02.2020	Communicating research results in peer-reviewed journals.	YS	Paper I	2:00 PM - 4:00 PM


 विभागाध्यक्ष / Head
 प्राणी विज्ञान विभाग / Department of Zoology

Tue	25.02.2020	Tracer Techniques: Isotopic and non-isotopic Techniques	RKS	Paper II	4:05 PM - 6:05 PM
Wed	26.02.2020	Preparation of Reagents, chemicals, buffers.	SBM	Paper I	2:00 PM - 4:00 PM
Wed	26.02.2020	Tracer Techniques: Use of high energy radiation	RKS	Paper II	4:05 PM - 6:05 PM
Thu	27.02.2020	General safety and precautions	SBM	Paper I	2:00 PM - 4:00 PM
Thu	27.02.2020	Chromatography; GC; FPLC; HPLC	GL	Paper II	4:05 PM - 6:05 PM
Fri	28.02.2020	Review on a relevant research topic and presentation of the same in a seminar	RKS	Paper I	2:00 PM - 4:00 PM
Fri	28.02.2020	Animal cell culture: Aseptic technique and preparation of media	RS	Paper II	4:05 PM - 6:05 PM
Mon	2.03.2020	Handling of instruments in CIF	SBM	Paper I	2:00 PM - 4:00 PM
Mon	2.03.2020	Bacterial Culture: Requirement and preparation of media	YS	Paper II	4:05 PM - 6:05 PM
Tue	3.03.2020	Handling of Instruments in the CIF.	SBM	Paper I	2:00 PM - 4:00 PM
Tue	3.03.2020	Types of Cell Culture	AS	Paper II	4:05 PM - 6:05 PM
Wed	4.03.2020	Handling of Instruments in the CIF.	SBM	Paper I	2:00 PM - 4:00 PM
Wed	4.03.2020	Insect Cell Culture/Insect model	RKS	Paper II	4:05 PM - 6:05 PM
Thu	5.03.2020	Pre-requisites of a model system; in vitro systems	GL/SM	Paper I	2:00 PM - 4:00 PM
Thu	5.03.2020	Applications of Cell Culture	AS	Paper II	4:05 PM - 6:05 PM
Fri	6.03.2020	Prokaryotic model organisms	YS	Paper I	2:00 PM - 4:00 PM
Fri	6.03.2020	Cloning and Sequencing of genes and genomics	ACB	Paper II	4:05 PM - 6:05 PM
Mon	9.03.2020	Prokaryotic model organisms	YS	Paper I	2:00 PM - 4:00 PM
Mon	9.03.2020	Microarray and Gene Expression	ACB	Paper II	4:05 PM - 6:05 PM
Wed	11.03.2020	Eukaryotic model organisms	SBM	Paper I	2:00 PM - 4:00 PM
Wed	11.03.2020	Gene targeting and its applications	ACB	Paper II	4:05 PM - 6:05 PM
Thu	12.03.2020	Reading and critical analysis of scientific literature.	NA	Paper I	2:00 PM - 4:00 PM
Thu	12.03.2020	Gene targeting and its applications	ACB	Paper II	4:05 PM - 6:05 PM
Fri	13.03.2020	PCR techniques	RR	Paper I	2:00 PM - 4:00 PM
Fri	13.03.2020	Bioinformatics: Databases, sequences, sequence alignment- pairwise/ multiple,	ACB	Paper II	4:05 PM - 6:05 PM


 विभागाध्यक्ष / Head
 Department of Zoology

		global/ local protein family, domain, sequence conservation			
Mon	16.03.2020	Positive and negative controls, biological and technical replicates	YS	Paper I	2:00 PM - 4:00 PM
Mon	16.03.2020	Bioinformatics: Databases, sequences, sequence alignment- pairwise/ multiple, global/ local protein family, domain, sequence conservation	ACB	Paper II	4:05 PM - 6:05 PM
Tue	17.03.2020	Various routes of injections and sample collection.	GL	Paper I	2:00 PM - 4:00 PM
Tue	17.03.2020	Bioinformatics: Databases, sequences, sequence alignment- pairwise/ multiple, global/ local protein family, domain, sequence conservation	ACB	Paper II	4:05 PM - 6:05 PM
Wed	18.03.2020	CPCSEA guidelines; Institutional ethics committees.	MMC	Paper I	2:00 PM - 4:00 PM
Wed	18.03.2020	Introduction to software used for proteomics data analysis	ACB	Paper II	4:05 PM - 6:05 PM
Thu	19.03.2020	Ethical consideration in research on human beings.	RS	Paper I	2:00 PM - 4:00 PM
Thu	19.03.2020	Microarray and gene expression	ACB	Paper II	4:05 PM - 6:05 PM
Fri	20.03.2020	Animal handling and ethics	GL	Paper I	2:00 PM - 4:00 PM
Fri	20.03.2020	Bacterial and animal cell culture: Aseptic techniques and preparation of media	YS	Paper II	4:05 PM - 6:05 PM
Mon	23.03.2020	Maintenance of animals	GL	Paper I	2:00 PM - 4:00 PM
Mon	23.03.2020	Eukaryotic model organisms	NA	Paper II	4:05 PM - 6:05 PM
Tue	24.03.2020	Maintenance and storage of data, Concept of sampling, Cloud computing	ACB	Paper I	2:00 PM - 4:00 PM
Tue	24.03.2020	Scientific ethics and plagiarism.	RKN	Paper II	4:05 PM - 6:05 PM
Wed	25.03.2020	Experimental design; single and double blind studies, placebo	MS	Paper I	2:00 PM - 4:00 PM
Wed	25.03.2020	Epigenomics	MMC	Paper II	4:05 PM - 6:05 PM
Thu	26.03.2020	Biostatistics	MS	Paper I	2:00 PM - 4:00 PM
Thu	26.03.2020	Metagenomics	RKN	Paper II	4:05 PM - 6:05 PM
Fri	27.03.2020	Biostatistics	MS	Paper I	2:00 PM - 4:00 PM
Fri	27.03.2020	Proteomic data analysis	ACB	Paper II	4:05 PM - 6:05 PM

MMC: M. M. Chaturvedi, **RKS:** Prof. R.K. Seth, **DKS:** Prof. Dileep K. Singh, **RS:** Prof. Rita Singh, **SBM:** Prof. Sharmila Basu Modak, **AS:** Prof. Anju Shrivastava, Prof. Namita Aggarwal, **RR:** Prof. Rajagopal Raman, Prof. Malikarjun Sharad, **YS:** Prof. Yogendra Singh, **ACB:** Prof. Alok Chandra Bharti, **RKN:** Dr. Ram Krishan Negi, **GL:** Guest Lecturer