

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI – 12.

M.PHIL SUBJECT CODES AND SUBJECTS TITLE (2018-19) - FOR AFFILIATED COLLEGES

Course Name	Semester	Paper Code	Paper Name
Tamil	I	PTLC11	Aarachi Nerimuraigal
		PTLC12	Thiranaivu Muraigalum Anugumuraigalum
		Optional (any one)	
		PTLO11	Tamil Ilakakana Varalaru
		PTLO12	Tamilil Kavithaiyiyal Parvaigal
		PTLO13	Tamilil Kathaiyiyal Parvaigal
		PTLO14	Ilakiyamum Panpattu Manidaviyalum
	II	PTLC2D	Dissertation & Viva - voce
HISTORY	I	PHYC11	Research and Teaching Methodology
		PHYC12	Study of Archival Sources
		Optional (any one)	
		PHYO11	Archaeology and Epigraphy: Principles and Methods
		PHYO12	Social Movements in Tamilnadu
	II	PHYC2D	Dissertation & Viva - voce
ECONOMICS	I	PESC11	Research and Teaching Methodology
		PESC12	Recent Development in Economic Theory
		Optional (any one)	
		PESO11	Indian Economy: Issues and Development
		PESO12	Agricultural Economics
		PESO13	Development Economics
	II	PESC2D	Dissertation & Viva - voce

COMMERCE	I	PCOC11	Research and Teaching Methodology
		PCOC12	Contemporary Functional Management
		PCOO11	Professional Competencies
	II	PCOC2D	Dissertation & Viva - voce
MATHEMATICS	I	PMAC11	Research and Teaching Methodology
		PMAC12	Advanced Analysis
		Optional (any one)	
		PMAO11	Banach Algebra and Spectral Theory
		PMAO12	Advanced Graph Theory
		PMAO13	Harmonic Analysis
		PMAO14	Theory of Near-rings
		PMAO15	Advanced Calculus
		PMAO16	Algebraic Graph Theory
		PMAO17	Stochastic Modeling
		PMAO18	Wavelets
	II	PMAC2D	Dissertation & Vivavoce
	PHYSICS	I	PPHC11
PPHC12			Advanced Physics
Optional (any one)			
PPHO11			Materials Science
PPHO12			Nanomaterials
PPHO13			Space Physics
PPHO14			Crystal Growth
PPHO15			Thin Film
PPHO16			Electronic Structure calculation
PPHO17			Nonlinear Dynamics
PPHO18			Medical Physics
PPHO19			Radiation Physics
PPHO1A			Alternative Energy Conversion Devices
PPHO1B			Lasers and Applications
II		PPHC2D	Dissertation & Viva - voce

CHEMISTRY	I	PCHC11	Research and Teaching Methodology
		PCHC12	Advance Scientific techniques in Chemical Analysis
		Optional (any one)	
		PCHO11	Advanced Topics in Organic Chemistry
		PCHO12	Chromatography
		PCHO13	Advanced Topics in Physical Chemistry
		PCHO14	Adsorption and Catalysis
		PCHO15	Nanomaterials and their Applications to Solar Energy Conversion
		PCHO16	Phyto-Biosynthesis and Applications of Metal Nanoparticles
	II	PCHC2D	Dissertation & Viva - voce
ZOOLOGY	I	PZOC11	Research and Teaching Methodology
		PZOC12	Animal Biodiversity
		Optional (any one)	
		PZOO11	Animal Health
		PZOO12	Applied Zoology
	II	PZOC2D	Dissertation & Viva - voce
BOTANY	I	PBOC11	Research and Teaching Methodology
		PBOC12	Advances in Plant Science
		Optional (any one)	
		PBOO11	Plant Conservation Biotechnology
		PBOO12	Developmental Botany & Plant Biotechnology
		PBOO13	Phytochemistry and Pharmacognosy
		PBOO14	Bio Fertilizers and Plant Responses
		PBOO15	Soil Fertility and Plant Nutrition
		PBOO16	Ecology, Biodiversity and Sustainability
		PBOO17	Taxonomy of Angiosperms
		PBOO18	Plant Anatomy and Reproductive Biology
		PBOO19	Algal Technology
		PBOO1A	Bryophyte Systematics and Evolution
		PBOO1B	Ethnomedicine
		PBOO1C	Marine Botany
		PBOO1D	Vascular Cryptogams
		II	PBOC2D

BIOTECHNOLOGY	I	PBTC11	Research and Teaching Methodology
		PBTC12	Applied Biotechnology
		Optional (any one)	
		PBTO11	Microbial Biotechnology
		PBTO12	Stem cell Biology
		PBTO13	Applied Plant Biotechnology
	II	PBTC2D	Dissertation & Viva - voce
COMPUTER SCIENCE	I	PCSC11	Research and Teaching Methodology
		PCSC12	Recent Research Topics in Computing
		Optional (any one)	
		PCSO11	Internet of Things
		PCSO12	Advanced Digital Image Processing
		PCSO13	Data Mining and Warehousing
		PCSO14	Machine Learning Techniques
		PCSO15	Cloud Computing
	II	PCSC2D	Dissertation & Viva - voce
ENGLISH	I	PEHC11	Research and Teaching Methodology
		PEHC12	Critical Theory
		Optional (any one)	
		PEHO11	Contemporary Literature
		PEHO12	Women's Studies
	II	PEHC2D	Dissertation & Viva - voce
INFORMATION TECHNOLOGY	I	PITC11	Research and Teaching Methodology
		PITC12	Data Sciences and Big Data Analytics
		Optional (any one)	
		PITO11	Advanced Digital Signal and Image Processing
		PITO12	Pattern Recognition and Image Analysis
		PITO13	Artificial Neural Networks
		PITO14	Fuzzy Logic and Engineering Applications
		PITO15	Data Compression
		PITO16	Robotics
		PITO17	Modern Communication System
		PITO18	Network Design
		PITO19	High Performance Computing Networks
		PITO1A	Pervasive, Grid and Cloud Computing
		PITO1B	Mobile and Cellular Computing
		PITO1C	Network Programming
		PITO1D	Network Security
		II	PITC2D