

**MANONMANIAM SUNDARANAR UNIVERSITY**  
**TIRUNELVELI – 627 012**  
**[with effect from the Academic year 2016 - 2017onwards]**

**Ph.D COURSE WORK PAPERS**

**ZOOLOGY**

<b>SUBJECT CODE</b>	<b>TITLE OF THE SUBJECT</b>
<b>ACWZO01</b>	Advanced Research Methodology
<b>ACWZO02</b>	Fisheries and Aquaculture
<b>ACWZO03</b>	Advances in Entomology
<b>ACWZO04</b>	Pollution and Toxicology
<b>ACWZO05</b>	Pharmaceuticals and Neutraceuticals
<b>ACWZO06</b>	Freshwater habitat and Ecology
<b>ACWZO07</b>	Microbiology and Microbial Techniques
<b>ACWZO08</b>	Immuno and Biochemical Techniques
<b>ACWZO09</b>	Marine Biodiversity and wildlife
<b>ACWZO10</b>	Marine Bio-resources, Utilization threats and Management
<b>ACWZO11</b>	Integrated Ocean Management
<b>ACWZO12</b>	Animal Biotechnology and Molecular Biology
<b>ACWZOP</b>	Mini Project

## HISTORY

<b>SUBJECT CODE</b>	<b>TITLE OF THE SUBJECT</b>
<b>ACWHS01</b>	Historical Methods and Research
<b>ACWHS02</b>	State and Society in Medieval India
<b>ACWHS03</b>	Contemporary History of India (1947 – 1991 A.D)
<b>ACWHS04</b>	Socio – Cultural History of Tamil Nadu (1916 -1967A.D)
<b>ACWHS05</b>	Social Movements in Tamil Nadu (1900 -2000 A.D)
<b>ACWHS06</b>	Local History (Kanyakumari, Thoothukudi and Tirunelveli Districts)
<b>ACWHS07</b>	Great Thinkers of Modern India
<b>ACWHS08</b>	Ecological History of India (1865 – 2000 A. D)
<b>ACWHS09</b>	Women’s Movement in India (1885 – 1985 A. D)
<b>ACWHS10</b>	State and Society in Ancient India upto Harsha
<b>ACWHS11</b>	Human Rights In India (1945 – 1995 A. D)
<b>ACWHS12</b>	History of Art and Architecture in Tamil Nadu upto 1947 A.D
<b>ACWHS13</b>	Archaeology and Epigraphy: Principles and Methods
<b>ACWHS14</b>	Economic History of India (1800 -1947A.D)
<b>ACWHSP</b>	Project

## PHYSICS

<b>SUBJECT CODE</b>	<b>TITLE OF THE SUBJECT</b>
<b>ACWPH01</b>	Materials Science
<b>ACWPH02</b>	Nanomaterials
<b>ACWPH03</b>	Space Physics
<b>ACWPH04</b>	Crystal Growth
<b>ACWPH05</b>	Thin Film
<b>ACWPH06</b>	Electronic Structure calculation
<b>ACWPH07</b>	Non Linear Dynamics
<b>ACWPH08</b>	Medical Physics
<b>ACWPH09</b>	Radiation Physics
<b>ACWPH10</b>	Alternative Energy Conversion Devices
<b>ACWPH11</b>	Lasers and Applications
<b>ACWPH12</b>	Advanced Materials and Processes
<b>ACWPH13</b>	Introduction to nonlinear optics and its Applications
<b>ACWPH14</b>	Non – Conventional Energy Resources
<b>ACWPH15</b>	Design of Photo – Voltaic systems
<b>ACWPH16</b>	Research and Teaching Methodology
<b>ACWPH17</b>	Advanced Physics
<b>ACWPHP</b>	Mini Project

## MATHEMATICS

<b>SUBJECT CODE</b>	<b>TITLE OF THE SUBJECT</b>
<b>ACWMA01</b>	Commutative Algebra
<b>ACWMA02</b>	Advanced Analysis
<b>ACWMA03</b>	Banach Algebra and Spectral Theory
<b>ACWMA04</b>	Advanced Graph Theory
<b>ACWMA05</b>	Harmonic Analysis
<b>ACWMA06</b>	Stochastic Modeling
<b>ACWMA07</b>	Wavelets
<b>ACWMA08</b>	Theory of Near - Rings
<b>ACWMA09</b>	Advanced Calculus
<b>ACWMA10</b>	Algebraic Graph Theory
<b>ACWMA11</b>	Combinatorial theory
<b>ACWMA12</b>	Advanced Domination Theory in Graphs
<b>ACWMA13</b>	Graph Reconstruction Theory
<b>ACWMA14</b>	Algebraic Topology
<b>ACWMA15</b>	Research and Teaching Methodology
<b>ACWMA16</b>	Mini Project
<b>ACWMA17</b>	Fixed Point Theory and Its Applications
<b>ACWMA18</b>	Graphs From Algebraic Structures
<b>ACWMA19</b>	Research Topics in Graph Theory
<b>ACWMA20</b>	Advanced Operations Research and Fuzzy Sets
<b>ACWMA21</b>	Centrality and Convexity in Graphs
<b>ACWMA22</b>	Extensions in Pebbling in Graphs
<b>ACWMA23</b>	Labeling Techniques in Graphs
<b>ACWMA24</b>	Pebbling in Graphs
<b>ACWMA25</b>	Queueing and Inventory Models

**COMPUTER SCIENCE /COMPUTER APPLICATIONS/ INFORMATION  
TECHNOLOGY & ENGINEERING /COMPUTER SCIENCE & ENGINEERING**

<b>SUBJECT CODE</b>	<b>TITLE OF THE SUBJECT</b>
<b>ACWCS01</b>	Research and Teaching Methodology
<b>ACWCS02</b>	Recent Research Topics in Computing
<b>ACWCS03</b>	Network and Information Security
<b>ACWCS04</b>	Advanced Wireless Network Architecture
<b>ACWCS05</b>	Software Defined Networks
<b>ACWCS06</b>	Internet of Things (IoT)
<b>ACWCS07</b>	Digital Video Acquisition and Analysis
<b>ACWCS08</b>	Pattern Recognition
<b>ACWCS09</b>	Video Data Management and Information Retrieval
<b>ACWCS10</b>	Advanced Digital Image Processing
<b>ACWCS11</b>	Data Mining and Data Warehousing
<b>ACWCS12</b>	Big Data Analytics
<b>ACWCS13</b>	Deep Learning
<b>ACWCS14</b>	Machine Learning Techniques
<b>ACWCS15</b>	Cloud Computing
<b>ACWCS16</b>	Bio-Inspired Computing
<b>ACWCS17</b>	Multi-core Architectures
<b>ACWCSP</b>	Mini Project

## CHEMISTRY

Sl.NO.	SUBJECT CODE	TITLE OF THE SUBJECT
1.	ACWCH01	Analytical Methods and Instrumentation
2.	ACWCH02	Corrosion Science and Engineering
3.	ACWCH03	Research and Teaching Methodology
4.	ACWCH04	Advanced Scientific Techniques in Chemical Analysis
5.	ACWCH05	Advanced Topics in Organic Chemistry
6.	ACWCH06	Chromatography
7.	ACWCH07	Advanced Topics in Physical Chemistry
8.	ACWCH08	Adsorption and Catalysis
9.	ACWCH09	Nanomaterials and Their Applications to Solar Energy Conversion
10.	ACWCH10	Phyto-Biosynthesis and Applications of Metal Nanoparticles
11.	ACWCHP	Mini Project
12.	ACWCH11	Heterogeneous Catalysis

## ECONOMICS

SUBJECT CODE	TITLE OF THE SUBJECT
ACWEO01	Research Methodology and Statistical Techniques
ACWEO02	Basic Concepts and Theories in Economics
ACWEO03	Agriculture and Rural Development
ACWEO04	Economics of Infrastructure and Development
ACWEO05	Environmental and Resource Economics
ACWEO06	Financial Economics
ACWEO07	Gender Economics
ACWEO08	Health Economics
ACWEO09	International Economics and Policy
ACWEO10	Public Economics and Policy
ACWEO11	Regional Economic Analysis
ACWEO12	Industrial Development
ACWEOP	Mini Project

## BOTANY

<b>SUBJECT CODE</b>	<b>TITLE OF THE SUBJECT</b>
ACWBY01	Research and Teaching Methodology
ACWBY02	Advances in Plant Science
ACWBY03	Plant Conservation Biotechnology
ACWBY04	Developmental Botany & Plant Biotechnology
ACWBY05	Phytochemistry and Pharmacognosy
ACWBY06	Bio fertilizers and Plant Responses
ACWBY07	Soil Fertility and Plant Nutrition
ACWBY08	Ecology, Biodiversity and Sustainability
ACWBY09	Taxonomy of Angiosperms
ACWBY10	Plant Anatomy and Reproductive Biology
ACWBY11	Algal Technology
ACWBY12	Bryophyte Systematics and Evolution
ACWBY13	Ethnomedicine
ACWBY14	Marine Botany
ACWBY15	Vascular Cryptogams
ACWBYP	Mini Project

## INFORMATION TECHNOLOGY

<b>SUBJECT CODE</b>	<b>TITLE OF THE SUBJECT</b>
<b>ACWIT01</b>	Research and Teaching Methodology
<b>ACWIT02</b>	Data Sciences and Big Data Analytics
<b>ACWIT03</b>	Advanced Digital Signal and Image Processing
<b>ACWIT04</b>	Modern Communication Systems
<b>ACWIT05</b>	Pervasive, Grid and Cloud Computing
<b>ACWIT06</b>	Engineering Research Methodology
<b>ACWIT07</b>	Pattern Recognition and Image Analysis
<b>ACWIT08</b>	Cloud Computing
<b>ACWIT09</b>	Computing for Data Analytics
<b>ACWIT10</b>	Big Data Analytics
<b>ACWIT11</b>	Foundations of Information Security
<b>ACWIT12</b>	Introduction to Digital Forensics
<b>ACWIT13</b>	Advanced Information Security
<b>ACWIT14</b>	Computing Techniques For Cancer Analytics
<b>ACWIT15</b>	Remote Sensing and Image Interpretation
<b>ACWIT16</b>	Introduction to Microwave Antenna and Radar Signal Processing
<b>ACWIT17</b>	An Introduction to Data Analytics
<b>ACWIT18</b>	Statistical Learning for Data Analytics
<b>ACWIT19</b>	Machine Learning Algorithms for Data Analytics
<b>ACWIT20</b>	Descriptive and Discovery Analytics
<b>ACWIT21</b>	Advanced Internet of Things
<b>ACWIT22</b>	Cryptography and Network Security
<b>ACWIT23</b>	Advanced Deep Learning for Malware Analysis
<b>ACWIT24</b>	Foundations of Malware Analysis
<b>ACWIT25</b>	Study of Malware Analysis Tools and Dataset
<b>ACWITP</b>	Mini Project



## LIBRARY SCIENCE

SUBJECT CODE	TITLE OF THE SUBJECT
ACWLS01	Research Methodology
ACWLS02	Informetrics and Scientometrics
ACWLS03	User Studies in Digital Era
ACWLS04	Information Literacy
ACWLS05	Electronic Resources Management
ACWLS06	Library Automation and Digitilization
ACWLS07	Digital Libraries
ACWLS08	E – Learning and Content Development
ACWLS09	Public and Academic Library system
ACWLS10	Marketing of Information Products and Services
ACWLSP	Mini Project

## MICROBIOLOGY

SUBJECT CODE	TITLE OF THE SUBJECT
ACWMB01	Advanced Research Methodology
ACWMB02	Advanced Bioinstrumentation
ACWMB03	Microbial Probiotics and Prebiotics
ACWMB04	Synthetic Biology and its Applications
ACWMB05	Nanobiotechnology and Application
ACWMB06	Microbial Drug Discovery and Management of Drug Resistance
ACWMB07	Microbes and Clean Environment
ACWMB08	Microbiome, Metagenomics and Molecular Techniques
ACWMB09	Advanced Marine Microbiology and Extremophiles
ACWMB10	Emerging and Re-emerging Microbial Infectious Diseases in India
ACWMB11	Microbial Product Development and Patenting
ACWMB12	Bioentrepreneurship and STARTUPS

## **BIOTECHNOLOGY**

<b>SUBJECT CODE</b>	<b>TITLE OF THE SUBJECT</b>
<b>ACWBT01</b>	Advanced Research Methodology
<b>ACWBT02</b>	Advanced Molecular Biology
<b>ACWBT03</b>	Advanced Bioinformatics
<b>ACWBT04</b>	Natural Products
<b>ACWBT05</b>	Advances in Microbial Biotechnology
<b>ACWBT06</b>	Molecular Toxicology
<b>ACWBT07</b>	Tissue Culture
<b>ACWBTP</b>	Mini Project

## ENGLISH

<b>Subject Code</b>	<b>Title of the Subject</b>
<b>ACWEN01</b>	Research Methodology
<b>ACWEN02</b>	Rhetorics & Stylistics
<b>ACWEN03</b>	Indian Aesthetics and Poetics
<b>ACWEN04</b>	Comparative Literary Studies
<b>ACWEN05</b>	Theories and Practices of English Language Teaching
<b>ACWEN06</b>	Translation Studies
<b>ACWEN07</b>	Psychoanalytic Studies
<b>ACWEN08</b>	Gender Studies
<b>ACWEN09</b>	Cultural Studies: Theory & Practice
<b>ACWEN10</b>	Green Studies
<b>ACWEN11</b>	Indigenous Literature
<b>ACWEN12</b>	Postcolonial Literature
<b>ACWEN13</b>	Diasporic Studies
<b>ACWEN14</b>	American Studies
<b>ACWEN15</b>	Media and Literature
<b>ACWENP</b>	Mini Project

## COMMERCE

<b>Sub Code</b>	<b>Title of the Subject</b>
<b>ACWCO01</b>	Teaching and Research methodology
<b>ACWCO02</b>	Human Resource Management
<b>ACWCO03</b>	Industrial relations and Labour Welfare
<b>ACWCO04</b>	Stress Management
<b>ACWCO05</b>	Training and Development
<b>ACWCO06</b>	Entrepreneurship Development
<b>ACWCO07</b>	Business Ethics and corporate Governance
<b>ACWCO08</b>	Banking theory Law and Practice
<b>ACWCO09</b>	Security Analysis and portfolio Management
<b>ACWCO10</b>	Merchant Banking and Financial services
<b>ACWCO11</b>	International Trade
<b>ACWCO12</b>	International Finance
<b>ACWCO13</b>	Financial Management
<b>ACWCO14</b>	Accounting for Financial decision making
<b>ACWCO15</b>	Indian Financial System
<b>ACWCO16</b>	Customer Relationship Management
<b>ACWCO17</b>	Marketing Management
<b>ACWCO18</b>	Supply chain Management
<b>ACWCO19</b>	Integrated Marketing Communication
<b>ACWCO20</b>	Rural Marketing
<b>ACWCO21</b>	International Marketing
<b>ACWCO22</b>	Consumer Behaviour
<b>ACWCO23</b>	Service Marketing
<b>ACWCOP</b>	Mini Project

## MANAGEMENT

<b>Sub Code</b>	<b>Title of the Subject</b>
<b>ACWMS01</b>	Research and Teaching Methodology
<b>ACWMS02</b>	Competencies for Excellence
<b>ACWMS03</b>	Contemporary Issues in Finance
<b>ACWMS04</b>	Contemporary Issues in Managing Human Resources
<b>ACWMS05</b>	Contemporary Issues in Marketing
<b>ACWMS06</b>	Business Analytics
<b>ACWMS07</b>	Entrepreneurship Ecosystem
<b>ACWMS08</b>	Corporate Financial Analysis
<b>ACWMS09</b>	Investment Avenues and Investors Behaviour
<b>ACWMS10</b>	Risk Management Techniques
<b>ACWMS11</b>	Human Resource Dynamics
<b>ACWMS12</b>	Perspectives on Knowledge Management
<b>ACWMS13</b>	Digital Marketing
<b>ACWMS14</b>	Rural Marketing Strategies
<b>ACWMS15</b>	Services And Logistics Practices
<b>ACWMSP</b>	Mini Project

## SOCIAL WORK

Sub Code	Title of the Subject
<b>ACWSO01</b>	<b>Core- I :</b> Advanced Social Work Research and Teaching Methodology
<b>ACWSO02</b>	<b>Core- II :</b> Contemporary Social Work
	<b>Project Oriented Electives</b>
<b>ACWSO03</b>	Human Resources Management
<b>ACWSO04</b>	Family & Child Welfare
<b>ACWSO05</b>	Community Development
<b>ACWSO06</b>	Medical and psychiatric Social Work

## TAMIL

குறியீட்டு எண்	தாளின் பெயர்
பிரிவு அ	இப்பிரிவில் ஒன்று கட்டாயம்
ACWTA01	ஆராய்ச்சி நெறிமுறைகள்
ACWTA02	திறனாய்வு: அடிப்படை, முறைகள், அணுகுமுறைகள்
ACWTA03	இலக்கியக் கொள்கைகளும் கோட்பாடுகளும்
ACWTA04	தமிழில் இலக்கிய வரலாறுகள்
பிரிவு ஆ	இலக்கணவியல் தாள்கள் (இலக்கணவியலில் ஆய்வு செய்பவர்கள் தேர்வு செய்ய வேண்டிய தாள்கள்)
ACWTA05	தமிழ் இலக்கண வரலாறு
ACWTA06	எழுத்திலக்கணக் கோட்பாடுகளும் முன்னோடிகளும்
ACWTA07	சொல்லிலக்கணக் கோட்பாடுகளும் முன்னோடிகளும்
ACWTA08	செய்யுளியல் கோட்பாடுகளும் முன்னோடிகளும்
பிரிவு இ	இலக்கியவியல் தாள்கள் (இலக்கிய ஆய்வுகள் செய்வோர் கற்க வேண்டிய அடிப்படைத் தாள்கள்)
ACWTA09	தமிழில் கவிதையியல் பார்வைகள்
ACWTA10	தமிழில் கதையியல் பார்வைகள்
ACWTA11	தமிழில் அரங்கியல் பார்வைகள்
ACWTA12	இலக்கிய வடிவங்களும் வகைகளும்
பிரிவு ஈ	பண்பாட்டியல் தாள்கள் ( இலக்கியம் / பண்பாடு / ஊடகம் ஆகியவற்றை இணைத்துப் பேசும் ஆய்வுகளைத் தேர்வு செய்யும் ஆய்வாளர்கள் கற்க வேண்டிய அடிப்படைத்தாள்கள்
ACWTA13	இலக்கியமும் பண்பாட்டு மானிடவியலும்
ACWTA14	தமிழ் வரலாறு : அரசியல், சமயம், தத்துவம், பொருளியல்
ACWTA15	பண்பாட்டு இயக்கங்களும் தமிழ் இலக்கியங்களும்
ACWTA16	ஊடகவியலும் பண்பாடும்
பிரிவு உ	நாட்டார் வழக்காற்றுக்களைத் தேர்வு செய்யும் ஆய்வாளர்கள் கற்க வேண்டிய அடிப்படைத்தாள்கள்
ACWTA17	பனுவலாக்கக் கோட்பாடு
ACWTA18	நிகழ்த்துதல் மரபுகளும் கோட்பாடும்
ACWTA19	இனவரைவியல் களஆய்வு
ACWTAP	திட்ட ஏடு

## EDUCATION (2018-19)

<i>Sl. No.</i>	<i>Subject Code</i>	<i>Subject Title</i>
1.	<i>ACWED01</i>	Perspectives In Higher Education
2.	<i>ACWED02</i>	Teacher Education across the World
3.	<i>ACWED03</i>	Cognitive Psychology
4.	<i>ACWED04</i>	Educational Studies
5.	<i>ACWED05</i>	Education at Elementary Level
6.	<i>ACWED06</i>	Education at Secondary and Higher Secondary Levels
7.	<i>ACWED07</i>	Educational Sociology
8.	<i>ACWED08</i>	Educational Statistics
9.	<i>ACWED09</i>	ICT in Education
10.	<i>ACWED10</i>	Curriculum Studies
11.	<i>ACWED11</i>	Teacher Education - I
12.	<i>ACWED12</i>	Education for Differently Abled
13.	<i>ACWED13</i>	Educational Policy, Planning & Financing
14.	<i>ACWED14</i>	Teacher Education - II
15.	<i>ACWED15</i>	Educational Evaluation
16.	<i>ACWED16</i>	Behaviour Modification
17.	<i>ACWED17</i>	Psychotherapy
18.	<i>ACWED18</i>	Psychology of Addiction
19.	<i>ACWEDP</i>	Mini Project



**STATISTICS (2018-19)**

<b>Sl. No.</b>	<b>Subject Code</b>	<b>Course</b>
1	ACWST01	Research Methodology
2	ACWST02	Advanced Sampling Techniques
3	ACWST03	Advanced Design of Experiments
4	ACWST04	Advanced Statistical Quality Control
5	ACWST05	Bayesian Inference
6	ACWST06	Statistical Inference in Econometrics
7	ACWST07	Stochastic Modeling and Its Applications
8	ACWST08	Markov Chains and Their Applications
9	ACWST09	Time Series Analysis and Its Applications
10	ACWST10	Advanced Operations Research
11	ACWST11	Reliability Theory and Its Applications
12	ACWST12	Data Mining Methods and Their Applications
13	ACWST13	Categorical Data Analysis
14	ACWSTP	Mini Project

## ENVIRONMENTAL SCIENCE (2018-19)

S.No	Sub Code	Course
1.	ACWES01	Environmental Pollution and Toxicology
2.	ACWES02	Instrumentation and Methodology for Environmental Analysis
3.	ACWES03	Environmental Chemistry
4.	ACWES04	Waste Recycling and Resource Recovery Technology
5.	ACWES05	Fundamental Chemistry
6.	ACWES06	Environmental Nanoscience
7.	ACWES07	Environmental Microbiology
8.	ACWES08	Pollution Control Engineering and Bioremediation
9.	ACWES09	Solid and Hazardous Waste Management
10.	ACWES10	Introduction to Nanoscience
11.	ACWES11	Synthesis of Nanomaterials
12.	ACWES12	Characterization techniques for Nanomaterials
13.	ACWES13	Methods of Nanofabrication
14.	ACWES14	Nanomedicine
15.	ACWES15	Nanocomposite
16.	ACWES16	Nanobiotechnology
17.	ACWES17	Environmental Pollution Control
18.	ACWES18	Research and Teaching Methodology
19.	ACWES19	Agricultural Entomology and Pest Management
20.	ACWES20	Sustainable Agriculture
21.	ACWES21	Ecofriendly Bioproducts
22.	ACWES22	River Ecosystem Ecology
23.	ACWES23	Restoration Ecology And Management
24.	ACWES24	Biostatistics and Science Writing
25.	ACWES25	Freshwater Ecology
26.	ACWES26	Biological Invasions and Management
27.	ACWESP	Mini Project

### Physical Education (2018-19)

Sl.No.	Sub Code	COURSE
1	ACWPE01	RESEARCH METHODOLOGY AND STATISTICS IN PHYSICAL EDUCATION
2	ACWPE02	SPORTS TECHNOLOGY
3	ACWPE03	GENERAL THEORY AND METHODS OF TRAINING
4	ACWPE04	HUMAN PERFORMANCE ASSESSMENT AND EVALUATION
5	ACWPE05	SPORTS PHYSIOLOGY AND KINESIOLOGY
6	ACWPE06	SPORTS PSYCHOLOGY AND SOCIOLOGY
7	ACWPE07	SPORTS MANAGEMENT AND MARKETING
8	ACWPE08	INFORMATION AND COMMUNICATION TECHNOLOGY IN SPORTS
9	ACWPE09	SPORTS BIOMECHANICS AND ERGONOMICS
10	ACWPE10	SPORTS MEDICINE AND REHABILITATION
11	ACWPE11	ADAPTED PHYSICAL EDUCATION
12	ACWPE12	PRINCIPLES OF MOTOR DEVELOPMENT
13	ACWPE13	PRINCIPLES OF YOGIC SCIENCES
14	ACWPE14	GAME OF SPECIALIZATION
15	ACWPEP	MINI PROJECT

## Criminology and Criminal Justice (2018-19)

Sl. No.	Sub Code	Title of the Subjects
1.	ACWCJ01	Principles of Criminology & Criminal Justice Administration
2.	ACWCJ02	Police Administration
3.	ACWCJ03	Penology and Corrections
4.	ACWCJ04	Indian Penal Code, Criminal Procedure and Evidence
5.	ACWCJ05	Theoretical Criminology
6.	ACWCJ06	Victimology and Victim Assistance
7.	ACWCJ07	Fundamentals of Research Methods and Statistical Applications
8.	ACWCJ08	Psychology of Crime and Criminal behavior
9.	ACWCJ09	Forensic Science and Forensic Medicine
10.	ACWCJP	Mini Project

## MARINE BIOTECHNOLOGY (2018-19)

Sl.No.	Sub Code	Subject Title
1	ACWMY01	Nanoscience and Nanobiotechnology
2	ACWMY02	Marine Biofouling
3	ACWMY03	Marine Natural Products
4	ACWMY04	Bioethics and Biosafety
5	ACWMY05	Extremophiles
6	ACWMY06	Animal Cell Culture Technology
7	ACWMY07	Marine Pharmacology
8	ACWMY08	Research Methodology
9	ACWMY09	Marine Toxicology
10	ACWMY10	Marine Genomics & Proteomics
11	ACWMY11	Marine Planktology
12	ACWMYP	Mini Project

### COMMUNICATION (2018-19)

S.No.	Course Code	Course
1	ACWMC01	Research Methods in Communication
2	ACWMC02	Media Uses and Effects
3	ACWMC03	Journalism
4	ACWMC04	Semiotics
5	ACWMC05	Development Communication
6	ACWMC06	New Media Studies
7	ACWMC07	Media, Gender and Human Rights
8	ACWMC08	Film Studies
9	ACWMC09	Media Audience Studies
10	ACWMCP	Mini Project

### SOCIOLOGY (2018-19)

S.No.	Course Code	Course
1	ACWSY01	Advanced Sociological Research
2	ACWSY02	Advanced Sociological Theory
3	ACWSYP	Mini Project.

### GEOTECHNOLOGY (GEO PHYSICS) / GEOLOGY (2018-19)

Sl.No.	Course Code	Course
1.	ACWGT01	Analytical Techniques in Geology
2.	ACWGT02	Coastal Environments
3.	ACWGT03	Groundwater Chemistry
4.	ACWGT04	Engineering Geology
5.	ACWGT05	Geohazards
6.	ACWGT06	Research Methodology
7.	ACWGT07	Geomagnetism
8.	ACWGT08	Geophysical prospecting methods
9.	ACWGT09	Remote Sensing & GIS
10.	ACWGTP	Mini Project

## Folklore (2018-19)

S.No	Sub Code	Title of the Paper
1	ACWFL01	Folklore Concepts
2	ACWFL02	Folklore Theories
3	ACWFL03	Folk Art & Culture
4	ACWFL04	Material Culture
5	ACWFL05	Folk Religion & Ritual
6	ACWFL06	Oral History
7	ACWFL07	Performance Studies
8	ACWFL08	Culture Studies
9	ACWFL09	Applied Folklore
10	ACWFL10	Research Methodology for Folklore Studies
11	ACWFLP	Mini - Project