

**Deccan Education Society's**  
**Fergusson College (Autonomous), Pune 4.**

**THIRD YEAR B. Sc.**  
**(Including Vocational Photography)**  
**(SEMESTER – V & VI)**

**(2019 PATTERN)**

**SCHEDULE OF SUPPLEMENTARY EXAMINATION,**

**JULY 2024 SE**  
**(Offline Examination)**  
**(Under Faculty of Science)**

**INSTRUCTIONS FOR CANDIDATES**

1. Candidates are required to be present at the examination centre **fifteen minutes** before the time fixed for the first paper and **ten minutes** before the time of each subsequent paper.
2. Candidates are **not allowed** from taking any material into the examination hall that can be used for malpractice at the time of examination.
3. Candidates are requested to see the **notice board** at their place of examination regularly for changes if any, which may be notified later in the program.
4. No request for any special concession such as a change in time or any day fixed for the Examination on any ground shall be granted.
5. Use of non-programmable calculator is allowed.

## July 2024 Supplementary Exam Time Table

Day & Date	Time	Paper Code	Subject
<b>Friday 19/07/2024</b>	<b>BOTANY</b>		
	02:15Pm To 04:15Pm	BOT3501	<b>CRYPTOGAMIC BOTANY</b>
	04:30Pm To 06:30Pm	BOT3601	Plant Physiology and Biochemistry
	<b>CHEMISTRY</b>		
	02:15Pm To 04:15Pm	CHE3501	<b>PHYSICAL CHEMISTRY - I</b>
	04:30Pm To 06:30Pm	CHE3601	Physical Chemistry II
	<b>ELECTRONIC SCIENCE</b>		
	02:15Pm To 04:15Pm	ELS3501	<b>COMMUNICATION ELECTRONICS</b>
	04:30Pm To 06:30Pm	ELS3601	Modern Communication Systems
	<b>ENVIRONMENTAL SCIENCE</b>		
	02:15Pm To 04:15Pm	EVS3501	<b>TERRESTRIAL AND AQUATIC ECOSYSTEMS MANAGEMENT</b>
	04:30Pm To 06:30Pm	EVS3601	Waste Treatment Technology
	<b>GEOLOGY</b>		
	02:15Pm To 04:15Pm	GLY3501	<b>MINERALOGY</b>
	04:30Pm To 06:30Pm	GLY3601	Economic Geology
	<b>MICROBIOLOGY</b>		
	02:15Pm To 04:15Pm	MIC3501	<b>MEDICAL MICROBIOLOGY</b>
	04:30Pm To 06:30Pm	MIC3601	Metabolic Activities of Microorganisms
	<b>PHYSICS</b>		
	02:15Pm To 04:15Pm	PHY3501	<b>MATHEMATICAL METHODS IN PHYSICS</b>
	04:30Pm To 06:30Pm	PHY3601	Classical Electrodynamics
	<b>STATISTICS</b>		
	02:15Pm To 04:15Pm	STS3501	<b>DISTRIBUTION THEORY</b>
	04:30Pm To 06:30Pm	STS3601	Introduction to Stochastic Processes
	<b>ZOOLOGY</b>		
	02:15Pm To 04:15Pm	ZOO3501	<b>LIFE AND DIVERSITY OF ANIMALS-V</b>
	04:30Pm To 06:30Pm	ZOO3601	Life and Diversity of Animals -VI
	<b>MATHEMATICS</b>		
	02:15Pm To 04:15Pm	MTS3501	<b>REAL ANALYSIS - I</b>
	04:30Pm To 06:30Pm	MTS3601	Real Analysis-II

<b>Saturday 20/07/2024</b>	<b>BOTANY</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>BOT3502 ETHNOBOTANY</b>
	<b>04:30Pm To 06:30Pm</b>	BOT3602 Nursery and Gardening
	<b>CHEMISTRY</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>CHE3502 INORGANIC CHEMISTRY - I</b>
	<b>04:30Pm To 06:30Pm</b>	CHE3602 Inorganic Chemistry II
	<b>ELECTRONIC SCIENCE</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>ELS3502 MICROPROCESSORS &amp; MICROCONTROLLERS</b>
	<b>04:30Pm To 06:30Pm</b>	ELS3602 Embedded Systems
	<b>ENVIRONMENTAL SCIENCE</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>EVS3502 ENVIRONMENTAL MONITORING</b>
	<b>04:30Pm To 06:30Pm</b>	EVS3602 Wildlife Biology and Conservation
	<b>GEOLOGY</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>GLY3502 ENGINEERING GEOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	GLY3602 Oceanic and atmospheric science
	<b>MICROBIOLOGY</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>MIC3502 DNA FUNCTIONING AND TRANSFER IN BACTERIA</b>
	<b>04:30Pm To 06:30Pm</b>	MIC3602 Immunological Processes
	<b>PHYSICS</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>PHY3502 SOLID STATES OF PHYSICS</b>
	<b>04:30Pm To 06:30Pm</b>	PHY3602 Quantum Mechanics
	<b>STATISTICS</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>STS3502 THEORY OF ESTIMATION</b>
	<b>04:30Pm To 06:30Pm</b>	STS3602 Testing of Hypotheses
	<b>ZOOLOGY</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>ZOO3502 FUNDAMENTALS OF HISTOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	ZOO3602 Physiology: Life Sustaining Processes
	<b>MATHEMATICS</b>	
	<b>02:15Pm To 04:15Pm</b>	<b>MTS3502 COMPLEX ANALYSIS - I</b>
	<b>04:30Pm To 06:30Pm</b>	MTS3602 Complex Analysis – II

<b>Monday 22/07/2024</b>	<b>BOTANY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>BOT3503</b>	<b>GENETICS AND EVOLUTION</b>
	<b>04:30Pm To 06:30Pm</b>	BOT3603	Plant Ecology and Biodiversity
	<b>CHEMISTRY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>CHE3503</b>	<b>ORGANIC CHEMISTRY - I</b>
	<b>04:30Pm To 06:30Pm</b>	CHE3603	Organic Chemistry II
	<b>ELECTRONIC SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ELS3503</b>	<b>CIRCUIT DESIGN WITH LINEAR ICS</b>
	<b>04:30Pm To 06:30Pm</b>	ELS3603	Digital System Design
	<b>ENVIRONMENTAL SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>EVS3503</b>	<b>REMOTE SENSING AND GIS</b>
	<b>04:30Pm To 06:30Pm</b>	EVS3603	Environment Impact Assessment and Management
	<b>GEOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>GLY3503</b>	<b>STRUCTURAL GEOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	GLY3603	Igneous and Metamorphic Petrology
	<b>MICROBIOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MIC3503</b>	<b>ENZYMOMOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	MIC3603	Large Scale Bioprocesses
	<b>PHYSICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>PHY3503</b>	<b>CLASSICAL MECHANICS</b>
	<b>04:30Pm To 06:30Pm</b>	PHY3603	Thermodynamics & Statistical Mechanics
	<b>MATHEMATICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MTS3503</b>	<b>GROUP THEORY</b>
	<b>04:30Pm To 06:30Pm</b>	MTS3603	Ring Theory
	<b>STATISTICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>STS3503</b>	<b>INTRODUCTION TO REGRESSION ANALYSIS</b>
	<b>04:30Pm To 06:30Pm</b>	STS3603	Reliability and Survival Analysis
	<b>ZOOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ZOO3503</b>	<b>BIOCHEMISTRY</b>
	<b>04:30Pm To 06:30Pm</b>	ZOO3603	Molecular Biology

<b>Tuesday 23/07/2024</b>	<b>BOTANY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>BOT3504</b>	<b>SPERMATOPHYTA AND PALEOBOTANY</b>
	<b>04:30Pm To 06:30Pm</b>	BOT3604	Plant Breeding and Seed Technology
	<b>CHEMISTRY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>CHE3504</b>	<b>ANALYTICAL CHEMISTRY - I</b>
	<b>04:30Pm To 06:30Pm</b>	CHE3604	Analytical Chemistry II
	<b>ELECTRONIC SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ELS3504</b>	<b>SENSORS AND ACTUATORS</b>
	<b>04:30Pm To 06:30Pm</b>	ELS3604	Industrial Automation
	<b>ENVIRONMENTAL SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>EVS3504</b>	<b>ENVIRONMENTAL BIOTECHNOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	EVS3604	Environmental Governance and Ethics
	<b>GEOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>GLY3504</b>	<b>GEOLOGY OF INDIA - I</b>
	<b>04:30Pm To 06:30Pm</b>	GLY3604	Geology of India II
	<b>MICROBIOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MIC3504</b>	<b>FUNDAMENTALS OF IMMUNOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	MIC3604	Food & Dairy Microbiology
	<b>PHYSICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>PHY3504</b>	<b>ATOMIC AND MOLECULAR PHYSICS</b>
	<b>04:30Pm To 06:30Pm</b>	PHY3604	Nuclear Physics
	<b>STATISTICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>STS3504</b>	<b>DESIGN OF EXPERIMENTS</b>
	<b>04:30Pm To 06:30Pm</b>	STS3604	Applied multivariate Analysis
	<b>ZOOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ZOO3504</b>	<b>ECOLOGY AND ENVIRONMENTAL BIOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	ZOO3604	Organic Evolution
	<b>MATHEMATICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MTS3504</b>	<b>ADVANCED LINEAR ALGEBRA</b>
	<b>04:30Pm To 06:30Pm</b>	MTS 3604	Dynamical Systems

<b>Wednesday 24/07/2024</b>	<b>BOTANY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>BOT3505</b>	<b>HORTICULTURE AND FLORICULTURE</b>
	<b>04:30Pm To 06:30Pm</b>	BOT3605	Mycology and Plant Pathology
	<b>CHEMISTRY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>CHE3505</b>	<b>INDUSTRIAL CHEMISTRY - I</b>
	<b>04:30Pm To 06:30Pm</b>	CHE3605	Industrial Chemistry II
	<b>ELECTRONIC SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ELS3505</b>	<b>POWER ELECTRONICS</b>
	<b>04:30Pm To 06:30Pm</b>	ELS3605	Optoelectronics
	<b>ENVIRONMENTAL SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>EVS3505</b>	<b>INTRODUCTION TO ENVIRONMENTAL STATISTICS</b>
	<b>04:30Pm To 06:30Pm</b>	EVS3605	Environmental Toxicology, Health and Safety
	<b>GEOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>GLY3505</b>	<b>GEOMORPHOLOGY AND REMOTE SENSING</b>
	<b>04:30Pm To 06:30Pm</b>	GLY3605	Petroleum Geology
	<b>MICROBIOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MIC3505</b>	<b>PRINCIPLES OF FERMENTATION TECHNOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	MIC3605	Antimicrobial Therapy & Prevention
	<b>PHYSICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>PHY3505</b>	<b>ELEMENTS OF MATERIAL SCIENCE</b>
	<b>04:30Pm To 06:30Pm</b>	PHY3605	Astronomy & Astrophysics
	<b>STATISTICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>STS3505</b>	<b>ACTUARIAL STATISTICS</b>
	<b>04:30Pm To 06:30Pm</b>	STS3605	Time Series Analysis
	<b>ZOOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ZOO3505</b>	<b>IMMUNOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	ZOO3505	Animal Pathology
	<b>MATHEMATICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MTS3505</b>	<b>METRIC SPACES - I</b>
	<b>04:30Pm To 06:30Pm</b>	MTS 3605	Metric Spaces - II
	<b>VOCATIONAL PHOTOGRAPHY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>VPH3501</b>	<b>VIDEO RECORDING AND PLAYBACK SYSTEMS</b>
<b>04:30Pm To 06:30Pm</b>	VPH3601	Entrepreneurship Development*	

<b>Thursday 25/07/2024</b>	<b>BOTANY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>BOT3506</b>	<b>CELL BIOLOGY AND MOLECULAR BIOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	BOT3606	Plant Molecular Biology and Biotechnology
	<b>CHEMISTRY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>CHE3506</b>	<b>BIOCHEMISTRY - I</b>
	<b>04:30Pm To 06:30Pm</b>	CHE3606	Biochemistry II
	<b>ELECTRONIC SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ELS3506</b>	<b>ELECTRONIC DESIGN AUTOMATION TOOLS</b>
	<b>04:30Pm To 06:30Pm</b>	ELS3606	Semiconductor device technology
	<b>ENVIRONMENTAL SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>EVS3506</b>	<b>CLIMATE CHANGE AND SUSTAINABILITY</b>
	<b>04:30Pm To 06:30Pm</b>	EVS3606	Ecosystem Restoration and Remediation
	<b>GEOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>GLY3506</b>	<b>HYDROGEOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	GLY3606	Geophysical Prospecting
	<b>MICROBIOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MIC3506</b>	<b>AGRICULTURAL MICROBIOLOGY AND BIO NANOTECHNOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	MIC3606	Recombination and gene manipulation
	<b>PHYSICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>PHY3506</b>	<b>LASERS</b>
	<b>04:30Pm To 06:30Pm</b>	PHY3606	Energy Studies
	<b>STATISTICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>STS3506</b>	<b>OPERATIONS RESEARCH</b>
	<b>04:30Pm To 06:30Pm</b>	STS3606	Biostatistics
	<b>ZOOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ZOO3506</b>	<b>BIOLOGICAL TECHNIQUES &amp; BIOINFORMATIC</b>
	<b>04:30Pm To 06:30Pm</b>	ZOO3606	General Endocrinology
	<b>MATHEMATICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MTS3506</b>	<b>NUMBER THEORY</b>
	<b>04:30Pm To 06:30Pm</b>	MTS3606	Differential Geometry
<b>VOCATIONAL PHOTOGRAPHY</b>			
<b>02:15Pm To 04:15Pm</b>	<b>VPH3502</b>	<b>VIDEO PRODUCTION</b>	
<b>04:30Pm To 06:30Pm</b>	VPH3602	Radio Production*	

<b>Friday 26/07/2024 (SEC Paper I)</b>	<b>BOTANY</b>		
	02:15Pm To 04:15Pm	BOT3511	BIO-FERTILIZER
	04:30Pm To 06:30Pm	BOT3611	Medico-Botany
	<b>CHEMISTRY</b>		
	02:15Pm To 04:15Pm	CHE3511	CHEMICAL LAB SAFETY AND WASTE MANAGEMENT
	04:30Pm To 06:30Pm	CHE3611	Polymer Chemistry
	<b>ENVIRONMENTAL SCIENCE</b>		
	02:15Pm To 04:15Pm	EVS3511	HYDROPONICS: A GREEN WAY OF URBAN FARMING
	04:30Pm To 06:30Pm	EVS3611	Entrepreneurship Development & Services by Environmental Consultancy
	<b>GEOLOGY</b>		
	02:15Pm To 04:15Pm	GLY3511	OF RESPECTIVE DEPARTMENT
	04:30Pm To 06:30Pm	GLY3611	Groundwater development and management
	<b>MICROBIOLOGY</b>		
	02:15Pm To 04:15Pm	MIC3511	CLINICAL BIOCHEMISTRY AND DIAGNOSTIC MICROBIOLOGY
	04:30Pm To 06:30Pm	MIC3611	Marine Microbiology
	<b>ZOOLOGY</b>		
	02:15Pm To 04:15Pm	ZOO3511	BEE KEEPING
	04:30Pm To 06:30Pm	ZOO3611	Biostatics
	<b>ELECTRONIC SCIENCE</b>		
	02:15Pm To 04:15Pm	ELS3511	PCB DESIGN AND FABRICATION
	04:30Pm To 06:30Pm	ELS3611	Computer Hardware/Networking
	<b>PHYSICS</b>		
	02:15Pm To 04:15Pm	PHY3511	ANALOG ELECTRONICS
	04:30Pm To 06:30Pm	PHY3611	Digital Electronics
	<b>STATISTICS</b>		
	02:15Pm To 04:15Pm	STS3511	OF RESPECTIVE DEPARTMENT
	04:30Pm To 06:30Pm	STS3611	Of Respective Departments
	<b>MATHEMATICS</b>		
	02:15Pm To 04:15Pm	MTS3511	OPERATION RESEARCH
	04:30Pm To 06:30Pm	MTS3611	Optimization Techniques
	02:15Pm To 04:15Pm	MTS3515	COMBINATORICS
	04:30Pm To 06:30Pm	MTS3614	Lebesgue Integration



<b>Saturday 27/07/2024 (SEC Paper II)</b>	<b>BOTANY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>BOT3512</b>	<b>TECHNIQUES IN PLANT SCIENCES AND BIostatISTICS</b>
	<b>04:30Pm To 06:30Pm</b>	BOT3612	Mushroom Culture Technology
	<b>CHEMISTRY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>CHE3512</b>	<b>PHARMACOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	CHE3612	Analytical Methods
	<b>ELECTRONIC SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>EVS3512</b>	<b>SOFTWARE'S IN ENVIRONMENTAL STUDIES</b>
	<b>04:30Pm To 06:30Pm</b>	EVS3612	Design and Development of Eco-friendly Products
	<b>GEOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>GLY3512</b>	<b>GEMMOLOGY</b>
	<b>04:30Pm To 06:30Pm</b>	GLY3612	Geological field methods
	<b>MICROBIOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MIC3512</b>	<b>EPIDEMIOLOGICAL PRINCIPLES AND EXPERIMENTAL ANALYSIS</b>
	<b>04:30Pm To 06:30Pm</b>	MIC3612	Prebiotics and Probiotics
	<b>ZOOLOGY</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ZOO3512</b>	<b>VERMICULTURE AND VERMICOMPOSTING</b>
	<b>04:30Pm To 06:30Pm</b>	ZOO3612	Public health and Hygiene
	<b>ELECTRONIC SCIENCE</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>ELS3512</b>	<b>ROBOTICS</b>
	<b>04:30Pm To 06:30Pm</b>	ELS3612	IoT and Applications
	<b>PHYSICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>PHY3512</b>	<b>NUMERICAL ANALYSIS</b>
	<b>04:30Pm To 06:30Pm</b>	PHY3612	C-Programming
	<b>STATISTICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>STS3512</b>	<b>OF RESPECTIVE DEPARTMENT</b>
	<b>04:30Pm To 06:30Pm</b>	STS3612	<b>Of Respective Departments</b>
	<b>MATHEMATICS</b>		
	<b>02:15Pm To 04:15Pm</b>	<b>MTS3512</b>	<b>FINANCIAL MATHEMATICS - I</b>
	<b>04:30Pm To 06:30Pm</b>	MTS3612	Financial Mathematics -II
	<b>02:15Pm To 04:15Pm</b>	<b>MTS3513</b>	<b>PYTHON PROGRAMMING</b>
	<b>04:30Pm To 06:30Pm</b>	MTS3613	Graph theory

**NOTE: -**

- 1) The practical examinations will be conducted before theory Examination.**
- 2) The Backlog Students of B.Sc., Microbiology, EVS, Computer Science, Animation & Biotechnology 2016 pattern will have to appear for equivalence subject of 2019 pattern.**

**Prof. Nandkumar Mandlik**  
**Controller of Examinations**  
**Fergusson College (Autonomous)**

**Prof. Nitin Kulkarni**  
**Offg. Principal**  
**Fergusson College (Autonomous)**