Pune-411 007

### BACHELOR OF SCIENCE ((REV. 2019)) Paper List

```
[COURSE GRADE POINTS:90-100 0 10, 75-89 A+ 9, 60-74 A 8, 55-59 B+ 7, 50-54 B 6, 45-49 C 5, 40-44 D 4, 0-39 F 0, 0--1 P 0, 0--1 EX 0, NIL AAA 0]
[AAA=ABSENT, FF=FAIL, *=APPRARING, P=PREVIOUS,$=0.1, #=0.4, &=0.163, !=Non Countable
Credit Course,]
Semester: 1
Code
              Paper Title
              PLANT LIFE AND UTILIZATION-I
BO-111
BO-112
              PLANT MORPHOLOGY AND ANATOMY
BO-113
              PRACTICAL BASED ON BO111 AND BO112
CH-101
              PHYSICAL CHEMISTRY
              ORGANIC CHEMISTRY
CH-102
              CHEMISTRY PRACTICAL
CH-103
CHNA-111
              ESSENTIALS OF COMPUTERS-T
CHNA-112
              COMPUTER ORGANIZATION-I
CHNA-113
              CHNA LAB-I
              INDIA'S NATIONAL SECURITY: KEY CONCEPT
DS101
              EVOLUTION OF DEFENCE ORGANIZATION IN INDIA
DS102
              INDIA AND ITS NEIGHBOURS
DS103
EL-111
              BASICS OF APPLIED ELECTRONICS
EL-112
              ELECTRONIC DEVICES AND CIRCUITS
EL-113
              PRACTICAL COURSE-I
              FUNDAMENTAL OF ENVIRONMENTAL BIOLOGY FUNDAMENTAL OF ENVIRONMENTAL CHEMISTRY & PHYSICS
EVS-111
EVS-112
EVS-113
              ENVIRONMENTAL SCIENCE PRACTICAL PAPER
GG-111
              INTRODUCTION TO PHYSICAL GEOGRAPHY-I (GEOMORPHOLOGY)
GG-112
GG-113
              INTRODUCTION TO PHYSICAL GEOGRAPHY -II (GEOGRAPHY OF ATMOSPHERE)
              PRACTICAL IN PHYSICAL GEOGRAPHY
GL 111 T
              FUNDAMENTALS OF GEOLOGY
              MINERALOGY AND CRYSTALLOGRAPHY
GL 112 T
GL 113 P
              PRACTICALS RELATED TO GL 111 AND GL 112
              INTRODUCTION TO INDUSTRIAL MICROBIOLOGY AND MICROORGANISMS
IMB 111
IMB 112
              INRODUCTION TO INDUSTRIAL PROCESS AND ECONOMICS
IMB 113
              PRACTICAL COURSE BASED ON THEORY PAPER I AND II
MB - 111
              INTRODUCTION TO MICROBIAL WORLD
MB - 112
              BASIC TECHNIOUES IN MICROBIOLOGY
MB - 113
              PRACTICAL COURSE BASED ON THEORY PAPER I AND II
MT - 111
              ALGEBRA
MT-112
              CALCULUS-I
MT - 113
              MATHEMATICS PRACTICAL
NS-111
              FUNDAMENTALS OF NANOSCIENCE
NS-112
              MATERIALS SCIENCE
              NANOSCIENCE AND NANOTECHNOLOGY LABORATORY-IA
NS-113
PHY-111
              MECHANICS AND PROPERTIES OF MATTER
              PHYSICS PRINCIPLES AND APPLICATIONS
PHY-112
              PHYSICS LABORATORY-IA
PHY-113
PSY-111
              FOUNDATIONS OF PSYCHOLOGY
PSY-112
              EXPERIMENTAL PSYCHOLOGY
PSY-113
              PSYCHOLOGY PRACTICAL: EXPERIMENTS
RE-A-FC-101 COMPONENT: FOUNDATION -I
RE-A-FC-101PCOMPONENT: FOUNDATION -I (PRACTICAL PAPER)
RE-E-FPHE-105-1COMPONENT: (4) FAMILY PLANNING AND HEALTH EDUCATION-I RE-E-NCC-103-1COMPONENT: (2) NATIONAL CADET CORPS-I RE-E-NSS-102-1COMPONENT: (1) NATIONAL SERVICE SCHEME-I RE-E-PE-104-1COMPONENT: (3) POPULATION EDUCATION-I
RE-E-SP-106-1COMPONENT: (5) SPORTS-I
ST 1.1
              PAPER-I MORPHOLOGY
ST 1.2
              PAPER-II PLANT BREEDING AND TESTING FOR CULTVIAR GENUINESS
ST 1.3
              PRACTICAL BASED ON ST 1.1 AND ST 1.2
ST-111
              DESCRIPTIVE STATISTICS-I
ST-112
              DISCRETE PROBABILITY
ST-113
              STATISTICS PRACTICAL PAPER-I
VBT-111
              BIOLOGICAL CHEMISTRY
VBT-112
              BIOTECHNOLOGY
                               CONCEPTS AND APPLICATIONS
              LAB COURSE-I : PRACTICAL IN BIOCHEMISTRY
VBT-113
VOC-EEM111
              MAINTENANCE OF DOMESTIC EQUIPMENTS-A (HEATING APPLIANCES)
VOC-EEM112
              ELEMENTS OF ELECTRONIC EQUIPMENT DESIGN-A (PCB TECHNIQUES)
VOC-EEM113
              PRACTICAL COURSE-I
ZO-111
              ANIMAL DIVERSITY-I
zo-112
              ANIMAL ECOLOGY
zo-113
              ZOOLOGY PRACTICAL PAPER
Semester: 2
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Paper Title

Code

#### Pune-411 007

## BACHELOR OF SCIENCE ((REV. 2019)) Paper List

299	DEMOCRACY, ELECTION AND GOVERNANCE
BO-121	PLANT LIFE AND UTILIZATION-II
BO-122 BO-123	PRINCIPLES OF PLANT SCIENCE PRACTICAL BASED ON BO121 AND BO122
CH-201 CH-202	INORGANIC CHEMISTRY ANALYTICAL CHEMISTRY
CH-202	CHEMISTRY PRACTICAL-II
CHNA-121 CHNA-122	ESSENTIALS OF COMPUTERS-II COMPUTER ORGANIZATION-II
CHNA-123	CHNA LAB-IB
DS201 DS202	INFORMATION WARFARE HOMELAND SECURITY OF INDIA
DS203	DISASTER MANAGEMENT AND NATIONAL SECURITY
EL-121 EL-122	FUNDAMENTALS OF DIGITAL ELECTRONICS ANALOG AND DIGITAL DEVICE APPLICATIONS
EL-123	ELECTRONICS LAB IB
EVS-121 EVS-122	FUNDAMENTAL OF ENVIRONMENTAL GEOSCIENCES FUNDAMENTAL OF ENVIRONMENTAL POLLUTION
EVS-123 G-1	ENVIRONMENTAL SCIENCE PRACTICAL PAPER Physical Education
GG-121	INTRODUCTION TO HUMAN GEOGRAPHY
GG-122 GG-123	POPULATION AND SETTLEMENT GEOGRAPHY PRACTICALS IN HUMAN GEOGRAPHY
GL 121 T	STRATIGRAPHY AND SEDIMENTATION
GL 122 T GL 123 P	PETROLOGY AND GEOCHEMISTRY PRACTICALS RELATED TO GL 121 AND GL 122
IMB 121	QUANTITATIVE INDUSTRIAL MICROBIOLOGY
IMB 122 IMB 123	INDUSTRIAL BIOPROCESSES AND MICROBIAL PRODUCTS PRACTICAL COURSE BASED ON THEORY PAPER I AND II
MB-121 MB-122	BACTERIAL CELL AND BIOCHEMISTRY
MB-123	MICROBIAL CULTIVATION AND GROWTH PRACTICAL COURSE BASED ON THEORY PAPERS MB121 AND MB122
MT-121 MT-122	ANALYTICAL GEOMETRY CALCULUS - II
MT-123	Mathematics Practical
NS-121 NS-122	CHEMICAL AND BIOLOGICAL TECHNIQUES FOR SYNTHESIS OF NANOMATERIALS BASIC CHARACTERIZATION TECHNIQUES
NS-123	NANOSCIENCE AND NANOTECHNOLOGY LABORATORY-IB
PHY-121 PHY-122	HEAT AND THERMODYNAMICS ELECTRICITY AND MAGNETISM
PHY-123 PSY-121	PHYSICS LABORATORY-IB
PSY-121 PSY-122	INTRODUCTION TO SOCIAL PSYCHOLOGY PSYCHOLOGICAL TESTING
PSY-123	PSYCHOLOGY PRACTICAL : TESTS COMPONENT: FOUNDATION -II
RE-A-FC-111	PCOMPONENT: FOUNDATION -II (PRACTICAL PAPER)
RE-E-FPHE-1	.15-1COMPONENT: (4) FAMILY PLANNING AND HEALTH EDUCATION-II .3-1COMPONENT: (2) NATIONAL CADET CORPS-II
RE-E-NSS-11	2-1COMPONENT: (1) NATIONAL SERVICE SCHEME-II
RE-E-PE-114 RE-E-SP-116	-1COMPONENT: (3) POPULATION EDUCATION-II -1COMPONENT: (5) SPORTS-II
ST 1.4	PAPER-III SEED PHYSIOLOGY
ST 1.5 ST 1.6	PAPER-IV SEED PRODUCTION PRACTICAL BASED ON ST 1.4 AND ST 1.5
ST-121 ST-122	DESCRIPTIVE STATISTICS II DISCRETE PROBABILITY DISTRIBUTIONS
ST-123	STATISTICS PRACTICAL PAPER II
VBT-121 VBT-122	BIOINTRUMENTATION BIOSTATISTICS AND COMPUTERS FOR BIOLOGISTS
VBT-123	LAB COURSE-II: PRACTICAL IN BIOINSTRUMENTATION, BIOSTATISTICS AND COMPUTERS
VOC-EEM121 VOC-EEM122	MAINTENANCE OF DOMESTIC EQUIPMENTS-B (COOLING APPLIANCES) ELEMENTS OF ELECTRONIC EQUIPMENT DESIGN-B (OPEN SOURCE TOOLS)
VOC-EEM123 ZO-121	PRACTICAL COURSE-II ANIMAL DIVERSITY II
zo-122	CELL BIOLOGY
ZO-123	ZOOLOGY PRACTICAL PAPER
Semester: 3	
Code 23601	Paper Title (C COMPONENT) PHARMACEUTICAL CHEMISTRY I

Pune-411 007

### BACHELOR OF SCIENCE ((REV. 2019)) Paper List

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23602
             (C COMPONENT) ENERGY STUDIES I
23603
             (C COMPONENT) HORTICULTURE AND ITS MANAGEMENT I
23604
             (C COMPONENT) APPLIED ENTOMOLOGY I
             (C COMPONENT) DAIRY SCIENCE I
23605
23651
             (D COMPONENT) SOAP MANUFACTURING I
23652
             (D COMPONENT) RADIO REPAIRING I
23653
             (D COMPONENT) NURSERY DEVELOPMENT I
             (D COMPONENT) MEDICAL LAB TECHNICIAN I
23654
23655
             (D COMPONENT) MILK AND MILK PRODUCTS I
AECC-I ENVIRONMENIAL AWA
AECC-II (A) LANGUAGE: ENGLISH
             ENVIRONMENTAL AWARENESS
AECC-II (B) LANGUAGE: MARATHI
AECC-II (C) LANGUAGE: HINDI
AECC-II (D) LANGUAGE: ARABIC FUNCTIONAL AECC-II (E) LANGUAGE: SANSKRIT
BO-231
             Taxonomy of Angiosperms and Plant Ecology
             Plant Physiology
BO-232
BO-233
             Practical based on BO 231 & BO 232
CH-301
             Physical and Analytical Chemistry
             Inorganic and organic Chemistry
Practical Chemistry-III
CH-302
CH-303
CHNA-231
             Operating System & Diagnostics Tools
CHNA-232
             Microprocessor & Interfacing-I
CHNA-233
             CHNA Lab-IA
             SCIENCE, TECHNOLOGY & NATIONAL SECURITY MILITARY GEOGRAPHY & GEOPOLITICS
DS301
DS302
DS303
             COTEMPORARY WARFARE
EL-231
             Communicati on Electronics
EL-232
             Digital System Design
EL-233
             Practical Course
             Ecology & Ecosystem
Natural Resource Conservation and Management
EVS-231
EVS-232
EVS-233
             Practical Course Based on EVS-231 & EVS-232
GG-231
             Environmental Geography-I
GG-232
             Geography of Maharashtra (Physical)-I
GG-233
             Surveying-I
GL 211
             Structural Geology
GL 212(A)
             Principles of Stratigraphy and Sedimentation
GL 212(B)
GL 213
             PALAEONTOLOGY
             Practicals related to GL 211 & 212
             BIO-REACTORS-DESIGN & OPERATION
IMB 211
             SCREENING & PROCESS OPTIMIZATION
IMB 212
IMB 213
             PRACTICALS BASED ON IMB211 AND IMB212
LA 231
             English/Marathi
MB - 231
             Medical Microbiology and Immunology
MB-232
             Bacterial Physiology and Fermentation Technology
MB-233
             Practical based on MB 231 and MB 232
MT-231
             Calculus of Several Variables
MT - 232(A)
             Numerical Methods and Its Applications
MT-232(B)
             Graph Theory
MT-233
             Mathematics Practical based on MT - 231 and MT - 232
NS-231
             Physical Techniques for synthesis of Nanomaterials
NS-2310
             Environment-I
NS-2311
             Language-I
NS-232
             Properties of Nanomaterials (Physical, chemical, Optical and Magnetic)
NS-233
             Nanoscience and Nanotechnology Laboratory-2A
PHY-231
             Mathematical Methods in Physics I
PHY-232(A)
             Electronics-I
PHY-232(B)
             Instrumentation
PHY-233
             Physics Laboratory-2A
PSY-231
             Psychology of Adjustment
PSY-232
             Research Methods In Behavioral Sciences
PSY-233
             Psychology Practical: Tests and Group Testing
ST 2.1
             HYBRID SEED PRODUCTION
ST 2.2
ST 2.3
             SEED TESTING
             PRACTICALS BASED ON ST 2.1 AND ST 2.2
ST-231
             Discrete Probability Distributions And Time Series
ST-232
             Continuous Probability Distributions
ST-233
             Statistics Practical
VBT-211
             Cell biology & Microbial Genetics
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Pune-411 007

### BACHELOR OF SCIENCE ((REV. 2019)) Paper List

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Molecular Biology
VBT-212
VBT-213 Lab Course III: Practical in Cell & Molecular Biology. VOC-EEM-231 Basic level maintenance of smart phone
VOC-EEM-232 Smart phone based electronic equipment design
VOC-EEM-233 Practical course-III
ZO-231
              Animal Diversity III
ZO-232
              Applied Zoology I
              Zoology Practical Paper
ZO-233
Semester: 4
Code
              Paper Title
24601
              (C COMPONENT) PHARMACEUTICAL CHEMISTRY II
24602
              (C COMPONENT) ENERGY STUDIES II
24603
              (C COMPONENT) HORTICULTURE & ITS MANAGEMENT II
24604
              (C COMPONENT) APPLIED ENTOMOLOGY II
24605
              (C COMPONENT) DAIRY SCIENCE II
24651
              (D COMPONENT) SOAP MANUFACTURING II
              (D COMPONENT) RADIO REPAIRING II
24652
              (D COMPONENT) NURSERY DEVELOPMENT II
24653
24654
              (D COMPONENT) MEDICAL LAB TECHNICIAN II
24655
              (D COMPONENT) MILK AND MILK PRODUCTS II
AECC-III
              ENVIRONMENTAL AWARENESS
AECC-IV (A) LANGUAGE - ENGLISH
AECC-IV (B) LANGUAGE - MARATHI
AECC-IV (C) LANGUAGE - HINDI
AECC-IV (D) LANGUAGE - ARABIC FUNCTIONAL
AECC-IV (E) LANGUAGE - SANSKRIT
              Plant Anatomy and Embryology
BO 241
BO 242
              Plant Biotechnology
BO 243
              Practical based on BO 241 & BO 242
CH - 401
              Physical and Analytical Chemistry
              Inorganic and Organic Chemistry
Chemistry Practical - IV
CH-402
CH-403
CHNA-331
              NETWORKING FUNDAMENTALS
CHNA-332
              MICROPROCESSOR & INTERFACING - II
CHNA-333
              CHNA LAB-IB
DS401
              INTERNATIONAL SECURITY
DS402
              DEFENCE ECONOMICS
DS403
              DEFENCE JOURNALISM
EL-241
              Analog Circuit Design
              Microcontroller and Python programming
EL-242
EL-243
              Practical Course
EVS-241
              Biological Diversity & its Conservation
              Environmental Pollution Control Technology
EVS-242
EVS-243
              Practical Course Based on EVS - 241 & EVS - 242
GG 241
GG 242
              Environmental Geography-II
              Geography of Maharashtra (Human)-II
GG 243
              Surveying-II
              Global Tectonics and Geodynamics of the lithosphere
GL 221
GL 222
GL 223
              Environmental Geology and Geogenic disasters
Practicals related to GL 221 & 222
IMB 221
              MICROBIAL FERMENTATION PROC. & DOWNSTREAM PROC.ING
IMB 222
              QUALITY ASSURANCE IN INDUSTRIAL PRODUCT
IMB 223
              PRACTICALS BASED ON IMB221 & IMB222
MB 241
              Bacterial Genetics
MB 242
              Air, Water and Soil Microbiology
MB 243
MT-241
              Practical based on MB 241 and MB 242
              Linear Algebra
MT - 242(A)
              Vector Calculus
MT-242(B)
              Dynamical Systems
              Mathematics Practical based on MT - 241 and MT-242
Organic and polymer science of nanomaterials
Advanced Techniques for Characterization of Nanomaterials
MT-243
NS-241
NS-242
              Nanoscience and Nanotechnology Laboratory-2B
NS-243
PHY-241
              Oscillations, Waves and Sound
PHY-242
              Optics
PHY-243
              Physics Laboratory-2B
PSY-241
              HEALTH PSYCHOLOGY
PSY-242
              PSYCHOLOGICAL TESTING & APPLICATION
PSY-243
              PSYCHOLOGY PRACTICAL: TESTS AND GROUP TESTING
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#### 24-May-2025

# Savitribai Phule Pune University Pune-411 007

Pune-411 007

BACHELOR OF SCIENCE ((REV. 2019))

Paper List

	Vegetable Seed Production
ST 2.5 VOC	Seed Quality Control
ST 2.6 VOC	Practicals based on ST 2.4 and ST 2.5
ST-241	Tests of Significance And Statistical Methods
ST-242	Sampling Distributions And Exact tests
ST-243	Statistics Practical
VBT-221	Genetic Engineering
VBT-222	Bioinformatics
VBT-223	Lab Course IV: Practical in Genetic Engineering & Bioinformatics
VOC-EEM-241	Basic level maintenance of home and community equipment
VOC-EEM-242	Computer based electronic equipment design
	Practical course-IV
zo-241	Animal Diversity IV
ZO-242	Applied Zoology II
ZO-243	Zoology Practical Paper

#### SAVITRIBAI PHULE PUNE UNIVERSITY

(FORMERLY UNIVERSITY OF PUNE) PUNE-411 007

#### BACHELOR OF SCIENCE ((REV. 2019)) College Ledger(April-2025)

PunCode :CAAP010490 College :[0164] SAMAJBHUSHAN BABURAO ALIAS APPASAHEB JEDHE ARTS, COMMERCE AND SCIENCE COLLEGE, PUNE Branch : Not applicable(NA)

	Min Max	00	NT 06 15	01 03	4 5	PR 014 035	PR 020 050	Tot	C	С	rn rd	Grd	Grd Pnt	-	
PRN: 1172205687 SEMESTER: 3	7	SEAT						DE S				Moth	ier -	SONA	LI
AECC-I		P 01	13 F	02	3			036		2	2	Α	8	16	
AECC-II (A)		P 00	06 F	02	4			030		2	2	Α	8	16	
во-231		P 01	11 F	01	7			028		2	2	B+	7	14	
BO-232		P 02	13 F	02	3			036		2	2	Α	8	16	
во-233		P 00	07		- F	027		034		2	2	Α	8	16	
CH-301		P 00	07 *	00	8			015	FFF	2	0	F	0	0	
CH-302		P 02	11 *	02	4			035		2	2	Α	8	16	
CH-303		P 00	80		- F	018		026		2	2	В	6	12	
MB-231		P 02	14 F	01	8			032		2	2	Α	8	16	
MB-232		P 00	09 *	01	4			023		2	2	C	5	10	
MB-233		P 02	11		- F	023		034		2	2	Α	8	16	
Third Semester SGPA : Credits Earned/Total : 20/22 Total Credit Points: 148															
SEMESTER: 4															
AECC-III		* 01	10 *	02	7			037		2	2	Α	8	16	
AECC-IV (A)		* 01	11 *	02	1			032		2	2	Α	8	16	
BO 241		* 02	14 *	01	9			033		2	2	Α	8	16	
во 242		* 01	11 *	02	6			037		2	2	Α	8	16	
во 243		* 02	12		_ *	026		038		2	2	A+	9	18	
CH-401		* 00	09 *	00	4			013	FFF	2	0	F	0	0	
CH-402		* 02	13 *	01	0			023	FFF	2	0	F	0	0	
CH-403		* 01	12		_ *	023		035		2	2	Α	8	16	
MB 241		* 00	09 *	01	4			023		2	2	C	5	10	
MB 242		* 01	14 *	02	4			038		2	2	A+	9	18	
MB 243		* 02	13		_ *	027		040		2	2	A+	9	18	
Fourth Semester SGPA : Credits Earned/Total : 18/22 Total Credit Points: 144															
Second Year Result : Fail A.T.K.T. Total Credits Earned : 38/44															
First Year Cred	dits	Earr	ned :	44	Tot	al Cred	it Po	ints		M OF T	NST	RUCT	ION:	ENGI	ISH
MEDIUM OF INSTRUCTION: ENGLISH															

Total Appeared Students: 00001
Number of students passed: 00000
Number of students with ATKT: 00001
Number of students passed+ATKT: 00001
Number of students failed: 00000
Number of students reserved: 00000
Passing percentage: 000.00 %
Passing+ATKT percentage: 100.00 %