

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO.135 OF. 2023

Second YEAR B.SC.(REGULAR)(2019 PATTERN)(INCLUDING VOC)

Examination of MAR/APR-2023

(Under Faculty of SCIENCE AND TECHNOLOGY : A)SCIENCE)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
- Candidates are permitted to use stencils at the time of examination.
- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
- The written examination will be conducted in the following order.

SEMESTER - IV

B.Sc.(REGULAR)(2019)(Credit System)

Time:-3.00 PM To 5.00 PM

Day & Date	Paper Code	Subject
Tuesday 06-06-2023	24361	AECC-III ENVIRONMENTAL AWARENESS
Wednesday 07-06-2023	24321	AECC-IV A LANGUAGE - ENGLISH
	24331	AECC-IV B LANGUAGE - MARATHI
	24341	AECC-IV C LANGUAGE - HINDI
	24351	AECC-II E LANGUAGE - SANSKRIT
	24371	AECC-IV D LANGUAGE - ARABIC FUNCTIONAL
Thursday 08-06-2023	24131	CH-401 PHYSICAL AND ANALYTICAL CHEMISTRY
Friday 09-06-2023	24132	CH-402 INORGANIC AND ORGANIC CHEMISTRY
Saturday 10-06-2023	24121	PHY-241 OSCILLATIONS, WAVES & SOUND
Monday 12-06-2023	24122	PHY-242 OPTICS
Tuesday 13-06-2023	24111	MT-241 LINEAR ALGEBRA
	24241	EVS-241 BIOLOGICAL DIVERSITY & ITS CONSERVATION
Wednesday 14-06-2023	24112A	MT-242A VECTOR CALCULUS
	24112B	MT-242B DYNAMICAL SYSTEMS
	24242	EVS-242 ENVIRONMENTAL POLLUTION CONTROL TECHNOLOGY
Thursday 15-06-2023	24151	ZO-241 ANIMAL DIVERSITY IV
Friday 16-06-2023	24152	ZO-242 APPLIED ZOOLOGY II
Saturday 17-06-2023	24141	BO-241 PLANT ANATOMY & EMBRYOLOGY
Monday 19-06-2023	24142	BO-242 PLANT BIOTECHNOLOGY
Tuesday 20-06-2023	24161	GL 221 GLOBAL TECTONICS & GEODYNAMICS OF THE LITHOSPHERE
	24171	ST 241 TESTS OF SIGNIFICANCE AND STATISTICAL METHODS

**Second YEAR B.SC.(REGULAR)(2019 PATTERN)
(INCLUDING VOC)/135/F-2023**

Tuesday 20-06-2023	24201	PAPER - I : HEALTH PSYCHOLOGY
Wednesday 21-06-2023	24162	GL 222 ENVIRONMENTAL GEOLOGY & GEOGENIC DISASTERS
	24172	ST 242 SAMPLING DISTRIBUTION AND EXACT TESTS
	24202	PAPER - II: PSYCHOLOGICAL TESTING & APPLICATION
	24231	DS401 : INTERNATIONAL SECURITY
Thursday 22-06-2023	24191	MB 241 BACTERIAL GENETICS
	24232	DS402 : DEFENCE ECONOMICS
Friday 23-06-2023	24192	MB 242 AIR, WATER & SOIL MICROBIOLOGY
	24233	DS403 : DEFENCE JOURNALISM
Saturday 24-06-2023	24221	EL-241 ANALOG CIRCUIT DESIGN
Monday 26-06-2023	24222	EL-242 MICROCONTROLLER & PYTHON PROGRAMMING
Tuesday 27-06-2023	24181	GG 241 ENVIRONMENTAL GEOGRAPHY - II
	24261	NS-241 ORGANIC AND POLYMER SCIENCE OF NANOMATERIALS
Thursday 29-06-2023	24182	GG 242 GEOGRAPHY OF MAHARASHTRA (HUMAN)-II
	24262	NS-242 ADVANCED TECHNIQUES FOR CHARACTERIZATION OF NANO MATERIALS

SEMESTER - IV

VOCATIONAL Paper-III

Time:-3.00 PM To 5.00 PM

Day & Date	Paper Code	Subject
Tuesday 27-06-2023	24571	VBT-221 GENETIC ENGINEERING
	24811	EEM – 241 BASIC LEVEL MAINTENANCE OF HOME & COMMUNITY EQUIPMENT
	24821	IMB 221 MICROBIAL FERMENTATIONS & DOWN-STREAM PROCESSING
	24871	CHNA-331 NETWORKING FUNDAMENTALS
	24891	ST 2.4 VEGETABLE SEED PRODUCTION

SEMESTER - IV

VOCATIONAL Paper-IV

Time:-3.00 PM To 5.00 PM

Day & Date	Paper Code	Subject
Thursday 29-06-2023	24572	VBT-222 BIOINFORMATICS
	24812	EEM – 242 COMPUTER BASED ELECTRONIC EQUIPMENT DESIGN
	24822	IMB 222 QUALITY ASSURANCE IN INDUSTRIAL PRODUCT
	24872	CHNA-332 MICROPROCESSOR & INTERFACING - II
	24892	ST 2.5 SEED QUALITY CONTROL

SEMESTER - III

B.Sc.(REGULAR)(2019)(Credit System)

Time:-3.00 PM To 5.00 PM

Day & Date	Paper Code	Subject
Tuesday 06-06-2023	23361	AECC-I ENVIRONMENTAL AWARENESS **Time:-11.00 AM To 1.00 PM
Friday 30-06-2023	23321	AECC-II A LANGUAGE - ENGLISH
	23331	AECC-II B LANGUAGE - MARATHI
	23341	AECC-II C LANGUAGE - HINDI
	23351	AECC-IV E LANGUAGE - SANSKRIT
	23371	AECC-II D LANGUAGE - ARABIC FUNCTIONAL
Saturday 01-07-2023	23131	CH-301 PHYSICAL AND ANALYTICAL CHEMISTRY
Monday 03-07-2023	23132	CH-302 INORGANIC AND ORGANIC CHEMISTRY
Tuesday 04-07-2023	23121	PHY-231 MATHEMATICAL METHODS IN PHYSICS - I
Wednesday 05-07-2023	23151	ZO-231 ANIMAL DIVERSITY III
Thursday 06-07-2023	23152	ZO-232 APPLIED ZOOLOGY I
Friday 07-07-2023	23141	BO-231 TAXONOMY OF ANGIOSPERMS & PLANT ECOLOGY
Saturday 08-07-2023	23142	BO-232 PLANT PHYSIOLOGY
Monday 10-07-2023	23161	GL 211 STRUCTURAL GEOLOGY
	23171	ST 231 DISCRETE PROBABILITY DISTRIBUTIONS AND TIME SERIES
	23201	PAPER - I : PSYCHOLOGY OF ADJUSTMENT
Tuesday 11-07-2023	23111	MT-231 CALCULUS OF SEVERAL VARIABLES
	23241	EVS-231 ECOLOGY & ECOSYSTEM
Wednesday 12-07-2023	23112A	MT-232A NUMERICAL METHODS AND ITS APPLICATIONS
	23112B	MT-232B GRAPH THEORY
	23242	EVS-232 NATURAL RESOURCES CONSERVATION AND MANAGEMENT

**Second YEAR B.SC.(REGULAR)(2019 PATTERN)
(INCLUDING VOC)/135/F-2023**

Thursday 13-07-2023	23162A	GL 212 PRINCIPLES OF STRATIGRAPHY AND SEDIMENTATION
	23162B	GL 212 PALAEOLOGY (2021 Pattern)
	23172	ST 232 CONTINUOUS PROBABILITY DISTRIBUTIONS
	23202	PAPER - II: RESEARCH METHODS IN BEHAVIORAL SCIENCES
	23231	DS201 : SCIENCE,TECHNOLOGY & NATIONAL SECURITY
Friday 14-07-2023	23191	MB 231 MEDICAL MICROBIOLOGY AND IMMUNOLOGY
	23232	DS202 : MILITARY GEOGRAPHY & GEOPOLITICS
Saturday 15-07-2023	23192	MB 232 BACTERIAL PHYSIOLOGY AND FERMENTATION TECHNOLOGY
	23233	DS203 : COTEMPORARY WARFARE
Monday 17-07-2023	23181	GG 231 ENVIRONMENTAL GEOGRAPHY - I
	23261	NS-231 PHYSICAL TECHNIQUES FOR SYNTHESIS OF NANOMATERIALS
Tuesday 18-07-2023	23182	GG 232 GEOGRAPHY OF MAHARASHTRA (PHYSICAL)-I
	23262	NS-232 PROPERTIES OF NANOMATERIALS (PHYSICAL,CHEMICAL,OPTICAL & MAGNETIC)
Wednesday 19-07-2023	23122A	PHY-232 (A) ELECTRONICS I
	23122B	PHY-232 (B) INSTRUMENTATION
Thursday 20-07-2023	23221	EL-231 COMMUNICATION ELECTRONICS
Friday 21-07-2023	23222	EL-232 DIGITAL SYSTEM DESIGN

SEMESTER - III

VOCATIONAL Paper-III

Time:-3.00 PM To 5.00 PM

Day & Date	Paper Code	Subject
Monday 17-07-2023	23571	VBt-211 CELL BIOLOGY & MICROBIAL GENETICS
	23811	EEM – 231 BASIC LEVEL MAINTENANCE OF SMART PHONE
	23821	IMB 211 BIO-REACTORS-DESIGN & OPERATION
	23871	CHNA-231 OPERATING SYSTEM & DIAGNOSTICS TOOLS
	23891	ST 2.1 HYBRID SEED PRODUCTION

SEMESTER - III

VOCATIONAL Paper-IV

Time:-3.00 PM To 5.00 PM

Day & Date	Paper Code	Subject
Tuesday 18-07-2023	23572	VBt-212 MOLECULAR BIOLOGY
	23812	EEM – 232 SMART PHONE BASED ELECTRONIC EQUIPMENT DESIGN
	23822	IMB 212 SCREENING & PROCESS OPTIMIZATION
	23872	CHNA-232 MICROPROCESSOR & INTERFACING - I
	23892	ST 2.2 SEED TESTING

NOTE: -

Note :

1. The Backlog Students of S.Y.B.Sc. 2013 pattern will have to appear for equivalence subject of 2019 pattern.
2. ** Please Note the time

Ganeshkhind, Pune - 411 007

Ref.No/XCT:333

Date:04/05/2023

Director

Board of Examinations And Evaluation

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



**EXAMINATION CIRCULAR NO.136 OF. 2023
THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)(INCLUDING VOC)**

Examination of MAR/APR-2023

(Under Faculty of SCIENCE AND TECHNOLOGY : A)SCIENCE)

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**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
(INCLUDING VOC)
/136/F-2023**

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SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36141	BO-361 PLANT PHYSIOLOGY
Thursday 08-06-2023	36142	BO-362 BIOCHEMISTRY
Friday 09-06-2023	36143	BO-363 PLANT PATHOLOGY
Saturday 10-06-2023	36144	BO-364 EVOLUTION & POPULATION GENETICS
Monday 12-06-2023	36145	BO-365 ADVANCED PLANT BIOTECHNOLOGY
Tuesday 13-06-2023	36146	BO-366 PLANT BREEDING & SEED TECHNOLOGY
Wednesday 14-06-2023	361410	BO-3610 NURSERY & GARDENING MANAGEMENT
Thursday 15-06-2023	361411	BO-3611 BIOFERTILIZERS

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 16-06-2023	35141	BO-351 ALGAE & FUNGI
Saturday 17-06-2023	35142	BO-352 ARCHEGONIATE
Monday 19-06-2023	35143	BO-353 SPERMATOPHYTA & PALEOBOTANY
Tuesday 20-06-2023	35144	BO-354 PLANT ECOLOGY
Wednesday 21-06-2023	35145	BO-355 CELL & MOLECULAR BIOLOGY
Thursday 22-06-2023	35146	BO-356 GENETICS
Friday 23-06-2023	351410	BO-3510 MEDICINAL BOTONY
Saturday 24-06-2023	351411	BO-3511 PLANT DIVERSITY & HUMAN HEALTH

**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
(INCLUDING VOC)
/136/F-2023**

Chemistry

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36131	CH-601 PHYSICAL CHEMISTRY -II
Thursday 08-06-2023	36132	CH-602 PHYSICAL CHEMISTRY -III
Friday 09-06-2023	36134	CH-604 INORGANIC CHEMISTRY -II
Saturday 10-06-2023	36135	CH-605 INORGANIC CHEMISTRY -III
Monday 12-06-2023	36137	CH-607 ORGANIC CHEMISTRY -II
Tuesday 13-06-2023	36138	CH-608 ORGANIC CHEMISTRY -III
Wednesday 14-06-2023	361310A	CH-610A CHEMISTRY OF SOIL AND AGROCHEMICALS
	361310B	CH-610B INTRODUCTION OF FORENSIC CHEMISTRY
Thursday 15-06-2023	361311A	CH-611A ANALYTICAL CHEMISTRY -II
	361311B	CH-611B CHEMISTRY OF COSMETICS & PERFUMES

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 16-06-2023	35131	CH-501 PHYSICAL CHEMISTRY -I
Saturday 17-06-2023	35132	CH-502 ANALYTICAL CHEMISTRY -I
Monday 19-06-2023	35134	CH-504 INORGANIC CHEMISTRY -I
Tuesday 20-06-2023	35135	CH-505 INDUSTRIAL CHEMISTRY -I
Wednesday 21-06-2023	35137	CH-507 ORGANIC CHEMISTRY -I
Thursday 22-06-2023	35138	CH-508 CHEMISTRY OF BIOMOLECULES
Friday 23-06-2023	351310A	CH-510A INTRODUCTION OF MEDICINAL CHEMISTRY
	351310B	CH-510B POLYMER CHEMISTRY
Saturday 24-06-2023	351311A	CH-511A ENVIRONMENTAL CHEMISTRY

**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
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Saturday 24-06-2023	351311B	CH-511B CHEMO INFORMATICS
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Defence Studies

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36231	DS601 : ARMED FORCES AND DISASTER MANAGEMENT
Thursday 08-06-2023	36232	DS602 : UNITED NATION ORGANIZATION PART -II
Friday 09-06-2023	36233	DS603 : INTERNATIONAL RELATION PART -II
Saturday 10-06-2023	36234	DS604 : COUNTER TERRORISM
Monday 12-06-2023	36236A	DS606A: MAJOR GLOBAL CONFLICT -II
	36236B	DS606B: REGIONAL SECURITY SYSTEM -II
Tuesday 13-06-2023	36237A	DS607A: INDIA'S MARITIME SECURITY -II
	36237B	DS607B: PEACE & CONFLICT STUDIES -II
Wednesday 14-06-2023	36238A	DS608A: INDIAN MILITARY HISTORY (1947-2020)
	36238B	DS608B: BRITISH INDIAN MILITARY HISTORY
Thursday 15-06-2023	36239A	DS609A: COLD WAR AND POST COLD WAR (1945-1991)
	36239B	DS609B: INDIA'S DEFENCE POLICY
Friday 16-06-2023	362310	DS610 : INTRODUCTION TO CYBER SECURITY /INFORMATION SECURITY
Saturday 17-06-2023	362311	DS611 : HUMAN RIGHTS AND INDIA

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Monday 19-06-2023	35231	DS501 : STUDY OF DISASTER
Tuesday 20-06-2023	35232	DS502 : UNITED NATIONS ORGANIZATION PART -I
Wednesday 21-06-2023	35233	DS503 : INTERNATIONAL RELATIONS PART -I
Thursday 22-06-2023	35234	DS504 : TERRORISM
Friday 23-06-2023	35235	DS505 : RESEARCH METHODOLOGY

**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
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Saturday 24-06-2023	35236A	DS506A: MAJOR GLOBAL CONFLICT -I
	35236B	DS506B REGIONAL SECURITY SYSTEM -I
Monday 26-06-2023	35237A	DS507A: INDIA'S MARITIME SECURITY -I
	35237B	DS507B PEACE & CONFLICT STUDIES -I
Tuesday 27-06-2023	35238A	DS508A: CHHATRAPATI SHIVAJI MAHARAJ MILITARY SYSTEM
	35238B	DS508B CHHATRAPATI SHIVAJI MAHARAJ AS STRATEGIC THINKER
Thursday 29-06-2023	35239A	DS509A: WORLD MILITARY HISTORY (1900-1945)
	35239B	DS509B INDIA'S FOREIGN POLICY
Friday 30-06-2023	352310	DS510 : INTRODUCTION TO HUMAN RIGHTS AND DUTIES
Saturday 01-07-2023	352311	DS511 : HUMAN RIGHTS AND UN

ELECTRONIC SCINCE

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36221	EL-361 MODERN COMMUNICATION SYSTEMS
Thursday 08-06-2023	36222	EL-362 EMBEDDED SYSTEM DESIGN USING MICROCONTROLLERS
Friday 09-06-2023	36223	EL-363 INDUSTRIAL ELECTRONICS
Saturday 10-06-2023	36224	EL-364 MANUFACTURING PROCESSES FOR ELECTRONICS
Monday 12-06-2023	36225	EL-365 PROCESS CONTROL SYSTEMS
Tuesday 13-06-2023	36226A	EL-366A PLC SCADA
	36226B	EL-366B SENSORS AND SYSTEMS
Wednesday 14-06-2023	362210	ELSEC-361 DESIGN AND FABRICATION OF PCB
Thursday 15-06-2023	362211	ELSEC-362 MOBILE APPLICATION DEVELOPMENT

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 16-06-2023	35221	EL-351 DIGITAL DESIGN USING VERILOG
Saturday 17-06-2023	35222	EL-352 MICROCONTROLLER ARCHITECTURE & PROGRAMMING
Monday 19-06-2023	35223	EL-353 ANALOG CIRCUIT DESIGN & APPLICATIONS
Tuesday 20-06-2023	35224	EL-354 NANOELECTRONICS
Wednesday 21-06-2023	35225	EL-355 SIGNALS & SYSTEMS
Thursday 22-06-2023	35226A	EL-356A OPTICS & FIBER OPTIC COMMUNICATION
	35226B	EL-356B ELECTRONIC PRODUCT DESIGN & ENTREPRENEURSHIP
Friday 23-06-2023	352210	ELSEC-351 ELECTRONIC DESIGN AUTOMATION TOOLS
Saturday 24-06-2023	352211	ELSEC-352 INTERNET OF THINGS & APPLICATIONS

Environmental Science

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36241	EVS-361 AQUATIC ECOSYSTEM AND MANAGEMENT
Thursday 08-06-2023	36242	EVS-362 NATURE CONSERVATION
Friday 09-06-2023	36243	EVS-363 AIR & NOISE QUALITY
Saturday 10-06-2023	36244	EVS-364 ISSUES IN ENVIRONMENTAL SCIENCE
Monday 12-06-2023	36245	EVS-365 ENVIRONMENTAL GOVERNANCE : EMS,EIA & ISO 14000
Tuesday 13-06-2023	36246	EVS-366 ENVIRONMENTAL BIOTECHNOLOGY -II
Wednesday 14-06-2023	362410	EVS-3613 SOLID WASTE MANAGEMENT
Thursday 15-06-2023	362411	EVS-3614 URBAN ECOSYSTEM

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 16-06-2023	35241	EVS-351 TERRESTRIAL ECOSYSTEM & MANAGEMENT
Saturday 17-06-2023	35242	EVS-352 WILDLIFE BIOLOGY & MANAGEMENT
Monday 19-06-2023	35243	EVS-353 WATER & SOIL QUALITY
Tuesday 20-06-2023	35244	EVS-354 ATMOSPHERIC & GLOBAL CLIMATE CHANGE
Wednesday 21-06-2023	35245	EVS-355 ENVIRONMENTAL LEGISLATION & POLICY
Thursday 22-06-2023	35246	EVS-356 ENVIRONMENTAL BIOTECHNOLOGY -I
Friday 23-06-2023	352410	EVS-3511 REMOTE SENSING ,GIS & MODELING
Saturday 24-06-2023	352411	EVS-3512 SOIL HEALTH MANAGEMENT

**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
(INCLUDING VOC)
/136/F-2023**

Geography

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36181	GG 361 REGIONAL GEOGRAPHY OF INDIA -II
Thursday 08-06-2023	36182	GG 362 GEOGRAPHY OF ECONOMIC ACTIVITIES -II
Friday 09-06-2023	36183	GG 363 TOURISM ACTIVITIES & MANAGEMENT
Saturday 10-06-2023	36184	GG 364 GEOGRAPHY OF SOIL -II
Monday 12-06-2023	36185	GG 365 MANAGEMENT OF MANMADE DISASTERS
Tuesday 13-06-2023	36186	GG 366 GEOINFORMATICS -II
Wednesday 14-06-2023	361810	GG 3610 RESEARCH METHODOLOGY -II
Thursday 15-06-2023	361811	GG 3611 TOTAL STATION SURVEYING

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 16-06-2023	35181	GG 351 REGIONAL GEOGRAPHY OF INDIA -I
Saturday 17-06-2023	35182	GG 352 GEOGRAPHY OF ECONOMIC ACTIVITIES -I
Monday 19-06-2023	35183	GG 353 FUNDAMENTALS OF TOURISM
Tuesday 20-06-2023	35184	GG 354 GEOGRAPHY OF SOIL -I
Wednesday 21-06-2023	35185	GG 355 MANAGEMENT OF NATURAL DISASTERS
Thursday 22-06-2023	35186	GG 356 GEOINFORMATICS -I
Friday 23-06-2023	351810	GG 3510 RESEARCH METHODOLOGY -I
Saturday 24-06-2023	351811	GG 3511 ELEMENTARY SURVEYING

**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
(INCLUDING VOC)
/136/F-2023**

Geology

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36161	GL 321 GEOLOGY OF INDIA -II
Thursday 08-06-2023	36162	GL 322 MINING & MINERAL EXPLORATION
Friday 09-06-2023	36163	GL 323 OCEANOGRAPHY
Saturday 10-06-2023	36164	GL 324 PETROLEUM GEOLOGY
Monday 12-06-2023	36165	GL 325 CLIMATE CHANGE: PAST,PRESSENT AND FUTURE
Tuesday 13-06-2023	36166	GL 326 GEOLOGICAL FIELD METHODS AND MAPPING
Wednesday 14-06-2023	361610	SEC III APPLICATIONS OF REMOTE SENSING IN GEOSCIENCES
Thursday 15-06-2023	361611	SEC IV OIL FIELD SERVICES
Friday 16-06-2023	361612	SEC V WATERSHED DEVELOPMENT

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Saturday 17-06-2023	35161	GL 311 GEOLOGY OF INDIA -I
Monday 19-06-2023	35162	GL 312 MINERAL RESOURCES
Tuesday 20-06-2023	35163	GL 313 MARINE GEOLOGY
Wednesday 21-06-2023	35164	GL 314 ENGINEERING GEOLOGY
Thursday 22-06-2023	35165	GL 315 HYDROGEOLOGY
Friday 23-06-2023	35166	GL 316 APPLIED GEOPHYSICS
Saturday 24-06-2023	351610	SEC I GEOTECHNOLOGY
Monday 26-06-2023	351611	SEC II GEMMOLOGY & GEM TESTING

**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
(INCLUDING VOC)
/136/F-2023**

Mathematics

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36111	MT-361 COMPLEX ANALYSIS
Thursday 08-06-2023	36112	MT-362 REAL ANALYSIS -II
Friday 09-06-2023	36113	MT-363 RING THEORY
Saturday 10-06-2023	36114	MT-364 PARTIAL DIFFERENTIAL EQUATIONS
Monday 12-06-2023	36115A	MT-365A OPTIMIZATION TECHNIQUES
	36115B	MT-365B CALCULUS OF VARIATION & CLASSICAL MECHANICS
	36115C	MT-365C FINANCIAL MATHEMATICS
Tuesday 13-06-2023	36116B	MT-366B COMPUTATIONAL GEOMETRY
	36116C	MT-366C LEBESGUE INTEGRATION

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 14-06-2023	35111	MT-351 METRIC SPACES
Thursday 15-06-2023	35112	MT-352 REAL ANALYSIS -I
Friday 16-06-2023	35113	MT-353 GROUP THEORY
Saturday 17-06-2023	35114	MT-354 ORDINARY DIFFERENTIAL EQUATIONS
Monday 19-06-2023	35115A	MT-355A OPERATIONS RESEARCH
	35115B	MT-355B DIFFERENTIAL GEOMETRY
	35115C	MT-355C C-PROGRAMMING
Tuesday 20-06-2023	35116B	MT-356B NUMBER THEORY
	35116C	MT-356C LAPLACE TRANSFORM & FOURIER SERIES

**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
(INCLUDING VOC)
/136/F-2023**

Microbiology

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36191	MB 361 MEDICAL MICROBIOLOGY -II
Thursday 08-06-2023	36192	MB 362 IMMUNOLOGY -II
Friday 09-06-2023	36193	MB 363 METABOLISM
Saturday 10-06-2023	36194	MB 364 MOLECULAR BIOLOGY
Monday 12-06-2023	36195	MB 365 FERMENTATION TECHNOLOGY -II
Tuesday 13-06-2023	36196	MB 366 FOOD MICROBIOLOGY
Wednesday 14-06-2023	361910	MB 3610 WASTE MANAGEMENT
Thursday 15-06-2023	361911	MB 3611 NANO BIOTECHNOLOGY

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 16-06-2023	35191	MB 351 MEDICAL MICROBIOLOGY -I
Saturday 17-06-2023	35192	MB 352 IMMUNOLOGY -I
Monday 19-06-2023	35193	MB 353 ENZYMOLOGY
Tuesday 20-06-2023	35194	MB 354 GENETICS
Wednesday 21-06-2023	35195	MB 355 FERMENTATION TECHNOLOGY -I
Thursday 22-06-2023	35196	MB 356 AGRICULTURAL MICROBIOLOGY
Friday 23-06-2023	351910	MB 3510 MARINE MICROBIOLOGY
Saturday 24-06-2023	351911	MB 3511 DAIRY MICROBIOLOGY

NANOSCIENCE

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36261	NS-361 POLYMER HETERO-STRUCTURE & THEIR APPLICATIONS
Thursday 08-06-2023	36262	NS-362 FUNCTIONAL NANOMATERIALS
Friday 09-06-2023	36263	NS-363 APPLICATIONS OF NANOBIO TECHNOLOGY
Saturday 10-06-2023	36264	NS-364 NANOELECTRONICS
Monday 12-06-2023	36265	NS-365 ENERGY STORAGE DEVICES & APPLICATIONS
Tuesday 13-06-2023	36266	NS-366 ELECTIVE II (PHOTO CATALYSIS FOR ENVIRONMENTAL POLLUTION CONTROL)
Wednesday 14-06-2023	362610	NS-3610 DATA ANALYSIS & COMPUTER APPLICATION
Thursday 15-06-2023	362611	NS-3611 RENEWABLE ENERGY AND ENERGY HARVESTING

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 16-06-2023	35261	NS-351 POLYMER & COMPOSITES
Saturday 17-06-2023	35262	NS-352 NANOPHYSICS
Monday 19-06-2023	35263	NS-353 NANOBIO TECHNOLOGY
Tuesday 20-06-2023	35264	NS-354 CARBON BASED NANOMATERIALS
Wednesday 21-06-2023	35265	NS-355 ENERGY CONVERSION DEVICES & APPLICATIONS
Thursday 22-06-2023	35266	NS-356 ELECTIVE I (ENVIRONMENTAL NANOTECHNOLOGY & APPLICATIONS)
Friday 23-06-2023	352610	NS-3510 BASIC INSTRUMENTATION SKILL
Saturday 24-06-2023	352611	NS-3511 C PROGRAMMING

**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
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Physics

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36121	PHY-361 SOLID STATE PHYSICS
Thursday 08-06-2023	36122	PHY-362 QUANTUM MECHANICS
Friday 09-06-2023	36123	PHY-363 THERMODYNAMICS AND STATISTICAL PHYSICS
Saturday 10-06-2023	36124	PHY-364 NUCLEAR PHYSICS
Monday 12-06-2023	36125A	PHY-365A ELECTRONICS-II
	36125B	PHY-365B ADVANCED ELECTRONICS
Tuesday 13-06-2023	36126P	PHY-366P MEDICAL ELECTRONICS
	36126Q	PHY-366Q PHYSICS OF NANOMATERIALS
	36126R	PHY-366R MICROCONTROLLERS
	36126S	PHY-366S LASERS
	36126T	PHY-366T ASTRONOMY & ASTROPHYSICS-II
	36126U	PHY-366U RENEWABLE ENERGY SOURCES-II
	36126V	PHY-366V ACOUSTICS II
Wednesday 14-06-2023	361210W	PHY-3610W SCIENTIFIC DATA ANALYSIS USING PYTHON
	361210X	PHY-3610X SOLAR PV SYSTEM: INSTALLATION,REPAIRING & MAINTENANCE
	361210Y	PHY-3610Y APPLICATIONS OF INTERNET OF THINGS (IOT)
	361210Z	PHY-3610Z CALIBRATION TECHNIQUES
Thursday 15-06-2023	361211AA	PHY-3611(AA) MICROCONTROLLERS
	361211AB	PHY-3611(AB) INSTRUMENTATION FOR AGRICULTURE
	361211AC	PHY-3611(AC) RADIATION PHYSICS
	361211AD	PHY-3611(AD) PHOTOGRAPHY

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SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 16-06-2023	35121	PHY-351 MATHEMATICAL METHODS IN PHYSICS -II
Saturday 17-06-2023	35122	PHY-352 ELECTRODYNAMICS
Monday 19-06-2023	35123	PHY-353 CLASSICAL MECHANICS
Tuesday 20-06-2023	35124	PHY-354 ATOMIC & MOLECULAR PHYSICS
Wednesday 21-06-2023	35125	PHY-355 COMPUTATIONAL PHYSICS
Thursday 22-06-2023	35126A	PHY-356A ASTRONOMY & ASTROPHYSICS -I
	35126B	PHY-356B ELEMENTS OF MATERIALS SCIENCE
	35126C	PHY-356C BIOPHYSICS
	35126D	PHY-356D RENEWABLE ENERGY SOURCES -I
	35126E	PHY-356 E APPLIED OPTICS
	35126F	PHY-356F C# PROGRAMMING
	35126G	PHY-356G ACOUSTICS - I
Friday 23-06-2023	351210H	PHY-3510H PYTHON PROGRAMMING
	351210I	PHY-3510I ENERGY STUDIES
	351210J	PHY-3510J INTRODUCTION TO ARDUINO
	351210K	PHY-3510K SENSORS & TRANSDUCER
Saturday 24-06-2023	351211L	PHY-3511L PHYSICS WORKSHOP SKILL
	351211M	PHY-3511M BIOMEDICAL INSTRUMENTATION
	351211N	PHY-3511N NON-DESTRUCTIVE TESTING TECHNIQUES
	351211O	PHY-3511O ACOUSTICS APPLICATIONS

PSYCHOLOGY

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36201	PAPER- I : PERSONALITY THEORIES
Thursday 08-06-2023	36202	PAPER - II : PSYCHOPATHOLOGY -II
Friday 09-06-2023	36203	PAPER - III: EDUCATIONAL PSYCHOLOGY
Saturday 10-06-2023	36204	PAPER - IV : HUMAN RESOURCE MANAGEMENT
Monday 12-06-2023	36205	PAPER - V : REHABILITATION PSYCHOLOGY
Tuesday 13-06-2023	36206	PAPER - VI : PSYCHOTHERAPIES
Wednesday 14-06-2023	362010	SEC - I : BASIC THERAPEUTIC SKILLS
Thursday 15-06-2023	362011	SEC – II : SOFT SKILLS

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 16-06-2023	35201	PAPER - I : COGNITIVE PSYCHOLOGY
Saturday 17-06-2023	35202	PAPER - II : PSYCHOPATHOLOGY -I
Monday 19-06-2023	35203	PAPER - III : STATISTICAL METHODS
Tuesday 20-06-2023	35204	PAPER – IV : ORGANIZATIONAL BEHAVIOR
Wednesday 21-06-2023	35205	PAPER - V : POSITIVE PSYCHOLOGY
Thursday 22-06-2023	35206	PAPER - VI : COUNSELING PSYCHOLOGY
Friday 23-06-2023	352010	SEC - I : BASIC COUNSELING SKILLS
Saturday 24-06-2023	352011	SEC – II : PERSONALITY DEVELOPMENT

**THIRD YEAR B.SC.(REGULAR)(2019 PATTERN)
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Statistics

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36171	ST 361 DISTRIBUTION THEORY -II
Thursday 08-06-2023	36172	ST 362 TESTING OF HYPOTHESIS
Friday 09-06-2023	36173	ST 363 SAMPLING THEORY
Saturday 10-06-2023	36174	ST 364 INTRODUCTION TO SURVIVAL ANALYSIS
Monday 12-06-2023	36175	ST 365A ACTUARIAL STATISTICS
	36176	ST 365B OPERATIONS RESEARCH -II
Tuesday 13-06-2023	36177	ST 366A STOCHASTIC PROCESSES
	36178	ST 366B RELIABILITY THEORY & APPLICATIONS
	36179	ST 366C MEDICAL STATISTICS & CLINICAL TRIALS

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 14-06-2023	35171	ST 351 DISTRIBUTION THEORY -I
Thursday 15-06-2023	35172	ST 352 THEORY OF ESTIMATION
Friday 16-06-2023	35173	ST 353 DESIGN & ANALYSIS OF EXPERIMENTS
Saturday 17-06-2023	35174	ST 354 STATISTICAL PROCESS & PRODUCT CONTROL
Monday 19-06-2023	35175	ST 355 OPERATIONS RESEARCH -I
Tuesday 20-06-2023	35176	ST 356 REGRESSION ANALYSIS

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Vocational P-V

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Saturday 17-06-2023	368210	IMB 3610 INTRODUCTION TO BIOINFORMATICS
Monday 19-06-2023	36571	VBT-321 BIOTECHNOLOGY IN AGRICULTURE & ENVIRONMENT
	36811	VOC-EEM – 365 ENTREPRENEURSHIP DEVELOPMENT
	36825	IMB 365 BIOENTREPRENURSHIP & IPR
	36891	ST 3.4 SEED FARM MANAGEMANT,PROCESSING & STORAGE

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Tuesday 27-06-2023	358210	IMB 3510 PLANT TISSUE CULTURE
Thursday 29-06-2023	35571	VBt-311 ANIMAL & PLANT TISSUE CULTURE
	35811	VOC-EEM – 355 TROUBLE SHOOTING AND REPAIR OF AUDIO & VIDEO EQUIPMENT
	35825	IMB 355 APPLICATIONS OF MICROBIAL SYSTEMS
	35891	ST 3.1 SEED PATHOLOGY & ENTOMOLOGY

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Vocational P-VI

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Tuesday 20-06-2023	36572	VBT-322 SEC I-BIO-ENTREPRENEURSHIP SEC II-BIOTECHNOLOGY FOR HEALTH
	36812	VOC-EEM - 366 MEDICAL INSTRUMENTATION
	36826	IMB 366 RECOMBINANT DNA TECHNOLOGY
	36892	ST 3.5 BIOTECHNOLOGY AND INTELLECTUAL PROPERTY RIGHTS

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Friday 30-06-2023	35572	Vbt-312 INDUSTRIAL BIOTECHNOLOGY
	35812	VOC-EEM - 356ELECTRONIC INSTRUMENTATION
	35826	IMB 356 CELL CULTURE TECHNOLOGY
	35892	ST 3.2 ENTREPRENEURSHIP DEVELOPMENT

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Zoology

SEMESTER - VI

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Wednesday 07-06-2023	36151	ZO-361 MEDICAL & FORENSIC ZOOLOGY
Thursday 08-06-2023	36152	ZO-362 ANIMAL PHYSIOLOGY
Friday 09-06-2023	36153	ZO-363 MOLECULAR BIOLOGY
Saturday 10-06-2023	36154	ZO-364 ENTOMOLOGY
Monday 12-06-2023	36155	ZO-365 TECHNIQUES IN BIOLOGY
Tuesday 13-06-2023	36156	ZO-366 EVOLUTIONARY BIOLOGY
Wednesday 14-06-2023	361510	ZO-3610 ENVIRONMENTAL IMPACT ASSESSMENT

SEMESTER - V

Time:-11.00 AM To 01.00 PM

Day & Date	Paper Code	Subject
Thursday 15-06-2023	35151	ZO-351 PEST MANAGEMENT
Friday 16-06-2023	35152	ZO-352 HISTOLOGY
Saturday 17-06-2023	35153	ZO-353 BIOLOGICAL CHEMISTRY
Monday 19-06-2023	35154	ZO-354 GENETICS
Tuesday 20-06-2023	35155	ZO-355 DEVELOPMENTAL BIOLOGY
Wednesday 21-06-2023	35156	ZO-356 PARASITOLOGY
Thursday 22-06-2023	351510	ZO-3510 AQUARIUM MANAGEMENT
Friday 23-06-2023	351511	ZO-3511 POULTRY MANAGEMENT

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NOTE: -

1. The Backlog Students of T.Y.B.Sc. (Regular) 2013 pattern will have to appear for equivalence subject of 2019 pattern.

Ganeshkhind, Pune - 411 007

Ref.No/XCT:334

Date:04/05/2023

Director

Board of Examinations And Evaluation