

Adv. M. N. Deshmukh Arts, Science and Commerce College Rajur

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Faculty of Science

Sr.No	Faculty	Class	Sem	Subject Code	Subject Name		
3	Science	F.Y.B.Sc	I	PHY-111	Mechanics & Properties of Matter		
				PHY-112	Physics Principles & Applications		
				PHY-113	Physics Laboratory-IA		
				CH-101	Physical Chemistry		
				CH-102	Organic Chemistry		
				CH-103	Chemistry Practical-I		
				MT-111	Algebra		
				MT-112	Calculus-I		
				MT-113	Mathematics Practical		
				BO-111	Plant life & utilization I		
				BO-112	Plant morphology & Anatomy		
				BO-113	Practical based on BO-111 & 113		
				ZO-111	Animal Diversity I		
				ZO-112	Animal Ecology		
				ZO-113	Zoology Practical Paper		
		PHY-121	Heat & Thermodynamics				
		PHY-122	Electricity & Magnetism				
					II	PHY-123	Physics Laboratory-IB
						CH-201	Inorganic Chemistry
						CH-202	Organic Chemistry
CH-203	Chemistry Practical-I						
Analytical Geometry	Analytical Geometry						
Calculus-II	Calculus-II						
Mathematics Practical	Mathematics Practical						
BO-121	Plant life & utilization II						
BO-122	Principles of plant science						
BO-123	Practical based on BO-121 & 122						
ZO-121	Animal Diversity II						
ZO-122	Cell Biology						
ZO-123	Zoology Practical Paper						
S.Y.B.Sc	III			PHY-231	Mathematical methods in Physics		
				PHY-232A	Electronics -I		
				PHY-233	Physics Laboratory-2A		
				CH-301	Physical & Analytical Chemistry		
				CH-302	Inorganic & Organic Chemistry		
				CH-303	Chemistry Practical-III		
				MT-231	Calculus of several variables		
MT-232A	Numerical methods & its applications						
MT-233	Mathematics Practical						
BO-231	Botany Theory Paper-I						
BO-232	Botany Theory Paper-II						
BO-233	Botany Paper-III						

				ZO-231	Animal Diversity- III
				ZO-232	Applied Zoology- I
				ZO-233	Zoology Practical Paper
			IV	PHY-241	Oscillations, waves & sound
				PHY-242	Optics
				PHY-123	Physics Laboratory-2B
				CH-401	Physical & Analytical Chemistry
				CH-402	Inorganic & Organic Chemistry
				CH-403	Chemistry Practical-IV
				MT-241	Linear Algebra
				MT-242A	Vector Calculus
				MT-243	Mathematics Practical based on 241, 242
				BO-121	Botany Theory Paper-1
				BO-122	Botany Theory Paper-2
				BO-123	Botany Paper-IV
				ZO-241	Animal Diversity- IV
				ZO-242	Applied Zoology- II
				ZO-243	Zoology Practical Paper
		T. Y.B.Sc (Physics)	V	PHY-351	Mathematical methods in Physics-II
				PHY-352	Electrodynamics
				PHY-353	Classical Mechanics
				PHY-354	Atomic & Molecular Physics
				PHY-355	Computational Physics
				PHY-356-D (Elective-I)	Renewable Energy Sources-I
				PHY-357	Physics Laboratory- 3A
				PHY-358	Physics Laboratory- 3B
				PHY-359	Project- I
				PHY-3510-G	Python Programming
			VI	PHY-3511-N	Acoustics Applications
				PHY-361	Solid State Physics
				PHY-362	Quantum Mechanics
				PHY-363	Thermodynamics & Statistical Physics
				PHY-364	Nuclear Physics
				PHY-365-A	Electronics-II
				PHY-366-R	Lasers
				PHY-367	Physics Laboratory- 4A
				PHY-368	Physics Laboratory- 4B
				PHY-369	Project- II
				PHY-3610-V	Solar PV System: Installation, Repairing and Maintenance
				PHY-3611-Z	Instrumentation for Agriculture
		T. Y.B.Sc (Chem)	V	CH-501	Physical Chemistry- I
				CH-502	Analytical Chemistry- I
				CH-503	Physical Chemistry Practical- I
				CH-504	Inorganic Chemistry- I
				CH-505	Industrial Chemistry

				CH-506	Inorganic Chemistry Practical- I
				CH-507	Organic Chemistry- I
				CH-508	Chemistry of Biomolecules
				CH-509	Organic Chemistry Practical- I
				CH-510 B	Polymer Chemistry
				CH-511 A	Environmental Chemistry
			VI	CH-601	Physical Chemistry- II
				CH-602	Physical Chemistry- III
				CH-603	Physical Chemistry Practical- II
				CH-604	Inorganic Chemistry- II
				CH-605	Inorganic Chemistry- III
				CH-606	Inorganic Chemistry Practical- II
				CH-607	Organic Chemistry- II
				CH-608	Organic Chemistry- III
				CH-609	Organic Chemistry Practical- II
				CH-610 B	Introduction of Forensic Chemistry
				CH-611 A	Analytical Chemistry- II
		T. Y.B.Sc (Botany)	V	BO-351	Algae and Fungi
				BO-352	Archegoniate
				BO-353	Spermatophyta & Paleobotany
				BO-354	Plant Ecology
				BO-355	Cell & Molecular Biology
				BO-356	Genetics
				BO-357	Practical based on BO-351 and BO-352
				BO-358	Practical based on BO-353 and BO-354
				BO-359	Practical based on BO-355 and BO-356
				BO-3510	Medicinal Botany
				BO-3511	Plant Diversity & Human Health
			VI	BO-361	Plant Physiology
				BO-362	Biochemistry
				BO-363	Plant Pathology
				BO-364	Evolution & Population Genetics
				BO-365	Advanced Plant Biotechnology
				BO-366	Plant Breeding & Seed Technology
				BO-367	Practical based on BO-361 and BO-362
				BO-368	Practical based on BO-363 and BO-364
				BO-369	Practical based on BO-365 and BO-366
				BO-3610	Nursery & Gardening Management
				BO-3611	Biofertilizers
		T. Y.B.Sc (Zoology)	V	ZO-351	Pest Management
				ZO-352	Histology
				ZO-353	Biological Chemistry
				ZO-354	Genetics
				ZO-355	Developmental Biology

				ZO-356	Parasitology
				ZO-357	Zoology Practical Paper-1
				ZO-358	Zoology Practical Paper-2
				ZO-359	Zoology Practical Paper-3
				ZO-3510	Aquarium Management
				ZO-3511	Poultry Management
			VI	ZO-361	Medical & Forensic Zoology
				ZO-362	Animal Physiology
				ZO-363	Molecular Biology
				ZO-364	Entomology
				ZO-365	Techniques in Biology
				ZO-366	Evolutionary Biology
				ZO-367	Zoology Practical Paper-1
				ZO-368	Zoology Practical Paper-2
				ZO-369	Zoology Practical Paper-3
				ZO-3610	Environmental Impact Assessment
				ZO-3611	Project
		M.Sc.I (Botany)	I	40111	Botany Theory Paper-I Plant Systematics-I
				40112	Botany Theory Paper-II Cell Biology
				40113	Botany Theory Paper-III Cytogenetics, Plant Breeding & Evolution
				40114P	Botany Practical Paper-4 based of BODT-114
				40114T(B)	Botany Theory Paper-4B Pomoculture & Food Process
				40115	Botany Practical Paper based on BOUT 111, BOUT 112 & BOUT 113 A
				40191	Human Rights-I
				40192	Introduction to Cyber Security-I
			II	40211	Botany Theory Paper-1 Plant Systematics-II
				40212	Botany Theory Paper-2 Molecular Biology
				40213	Botany Theory Paper-3 Biochemistry
				40214P	Botany Practical Paper-4 based on BODT- 124
				40214T(A)	Botany Practical Paper-4 (A) Floriculture & Nursery Management OR (B) Mushroom Cultivation & BiopesticideTechnology
				40215	Botany Practical Paper based on BOUT 121, BOUT 122 & BOUT 123
				40291	Human Rights-II
				40292	Introduction to Cyber Security-II
		M.Sc.II (Botany)	III	40321	Botany Theory Paper-1 Computational Botany

				40322	Botany Theory Paper-2 Developmental Botany
				40323	Botany Theory Paper-3 Plant Physiology
				40324F	Botany Theory Paper-4 Seed Science
				40325	Botany Practical Paper based on BODT 234
				40326	Botany Practical Paper based on BOUT 232
				40392	Introduction to Cyber Security-III
				40394	Skill Development-I
				40395	Introduction to Constitution
			IV	40421	Botany Theory Paper-1 Botanical Techniques
				40422	Botany Theory Paper-2 Advanced Ecology
				40423B	Botany Theory Paper-3 Advanced Medicinal Botany
				40424	Botany Practical Paper based on BODT-243
				40425B	Botany Theory Paper-4 Herbal Technology
				40426	Botany Practical Paper based on BODT-244
				40428	Botany Practical Paper based on BOUT-241 & BOUT-242
				40492	Introduction to Cyber Security-IV
				40494	Skill Development-II
		M.Sc.I (Org.chem)	I	33121	CHP-110: Physical Chemistry-I
				33122	CHI-130: Inorganic Chemistry-I
				33123	CHO-150: Organic Chemistry-I
				33124C	CHA-190 (C) Introduction to Chemical Biology-I
				33125A	CHA-190 (A) Inorganic Chemistry- Material analysis, synthesis & applications
			II	33126	CHP-107: Basic Practical Chemistry-I
				33191	Human Rights-I
				33192	Introduction to Cyber Security -IS
				33221	CHP-210: Physical Chemistry-II
				33222	CHI-230: Inorganic Chemistry-II
				33223	CHO-250: Organic Chemistry-II
				33224B	CHG-290 (B) Organometallic & Inorganic Reaction Mechanism
				33225A	CHG-290 (A) Electroanalytical Techniques of Analysis
				33226	CHP-227: Basic Practical Chemistry-II
				33291	Human Rights-II
				33292	Introduction to Cyber Security-II
		M.Sc.II	III	33321	CHO-350: Organic Reaction

		(Org.chem)			Mechanism & Biogenesis
				33322	CHO-351: Structure Determination of Organic Compounds
				33323	CHO-352: Stereochemistry & Assymmetric Synthesis of...
				33324	CHO-353A: Protection-Deprotection, Chiron Approach & C...
				33325	CHO-354: Practical-I Solvent free Organic Synthesis
				33392	Introduction to Cyber Security-III
				33394	Skill Development-I
				33395	Introduction to Constitution
			IV	33421	CHO-450: Chemistry of Natural Products
				33422	CHO-451: Organometallic Reagents in Organic Synthesis
				33423A	CHO-452 A: Medicinal Chemistry
				33424B	CHO-453 B: Carbohydrates Synthesis & Isolation of Nat...
				33424C	CHO-453 C: Project/Industrial Training/Internships,Sum...
				33425	CHO-454: Practical-II Convergent & Divergent Organics
				33492	Introduction to Cyber Security-IV
				33494	Skill Development-II