

GOVERNMENT COLLEGE OF ARTS, SCIENCE AND COMMERCE
SANQUELIM, GOA
S.Y.B.Sc. PROGRAMME STRUCTURE (NEP)
2024-2025

Semester	Major	Minor	MC	AEC	SEC
III	GEOGRAPHY	1. GOS -211 Ecology, Environment and Sustainable Development (04)	Choose any one 1.COM-234 Personal Investment and Tax Planning (03) 2.POL-231 Contemporary Global Issues (03)	Choose any one 1. HIN-251 संप्रेषण कौशल (02) 2.KON-251 संभाषण कौशल्य (02) 3. MAR-251 व्यक्तिमत्व विकास (02)	Choose any one 1.GEO-241 Crystals and Gemstones (03) 2. CHC-241 Mathematical Aspects and Computers in Chemistry (03) 3.ZOO-242 Wildlife and Ecotourism (03) 4. CSC-241 Mobile App Development (03) 5. MAT-241 Technical Typesetting Using LaTeX (03)
	1.GOS-200 Cartographic Techniques in Geography (04)	2. GEO-211 The Changing Earth (04)			
	2.GOS -201 Understanding Social and Cultural Geography (04)	3. BOT-211 Plant-Animal Interactions (04)			
	GEOLOGY	4. CHC-211: Basic Industrial Chemistry (04)			
	1. GEO 200 Structural Geology and Physical Geology (04)	5. ZOO-211 Vector Borne Diseases (04)			
	2. GEO-201 Principles of Stratigraphy and Palaeontology (04)	6. PHY-211 Electricity and Magnetism (04)			
	BOTANY				
	1. BOT-200 Diversity of Microbes and Non-flowering plants (04)				
	2.BOT-201 Plant Physiology (04)				

	<p align="center">CHEMISTRY</p> <p>1.CHC-200 Concepts in Inorganic and Physical Chemistry (04)</p> <p>2.CHC-201 Concepts in Organic and Analytical Chemistry (04)</p>	<p>7. CSC 213 Computer Organization (04)</p> <p>8. MAT-211 Matrix Algebra (04)</p>			
	<p align="center">ZOOLOGY</p> <p>1.ZOO-200 Biology of Non Chordates (04)</p> <p>2.ZOO-201 Cell Biology and Genetics (04)</p>				
	<p align="center">PHYSICS</p> <p>1.PHY-200 Properties of matter and sound (04)</p> <p>2.PHY-201 Heat and Thermodynamics (04)</p>				
	<p align="center">COMPUTER SCIENCE</p> <p>1.CSC-200 Programing using C++ (04)</p> <p>2. CSC-201 Mathematical Foundation for Computer</p>				

	Science (04)				
	MATHEMATICS				
	1.MAT-200 Calculus of One Variable (04)				
	2.MAT-201 Ordinary Differential Equations (04)				

Semester	Major	Minor	AEC
IV	<p align="center">GEOGRAPHY</p> <p>1.GOS -202 Fundamentals of Geomorphology and Geotectonics (04)</p> <p>2.GOS -203: Geography of Flora and Fauna (04)</p> <p>3.GOS -204: Geography of Population (04)</p> <p>4.GOS -205: Physical Geography of India (02)</p>	<p>1. GOS -221: Spacial Planning for Tourism Operations (VET) (04)</p> <p>2. GEO-221 Introduction to Engineering Geology (VET) (04)</p> <p>3. BOT-221 Techniques in Floral Arrangement (VET) (04)</p>	<p>Choose any one</p> <p>1. HIN-252 संभाषण कला (02)</p> <p>2. KON-252 कोंकणी भाशेचें मुळावें गिन्यान (02)</p> <p>3. MAR-252 ग्रंथपरीक्षण (02)</p>
	<p align="center">GEOLOGY</p> <p>1. GEO-202 Descriptive Mineralogy (04)</p> <p>2. GEO-203 Introduction to Mining Geology (04)</p> <p>3. GEO-204 Geotectonics and associated Rocks (04)</p> <p>4. GEO-205 Geology of Goa (02)</p>	<p>4. CHC- 221 Basics of Chemical Laboratory Management (VET) (04)</p> <p>5. ZOO-221 Bio instrumentation (VET) (04)</p> <p>6. PHY-221 Communication Physics (VET) (04)</p>	
	<p align="center">BOTANY</p> <p>1.BOT-202 Anatomy and Reproductive Biology of Flowering Plants (04)</p> <p>2. BOT-203 Cell Biology and Plant Biochemistry (04)</p> <p>3.BOT-204 Biofertilizers (04)</p> <p>4. BOT-205 Palynology (02)</p>	<p>7. CSC-221 Introduction to Python Programming (VET) (04)</p> <p>8. MAT-221 Probability Theory (VET) (04)</p>	

	<p style="text-align: center;">CHEMISTRY</p> <p>1.CHC-202 Organic Chemistry -I (04)</p> <p>2.CHC-203 Inorganic Chemistry -I(04)</p> <p>3.CHC-204 Physical Chemistry -I(04)</p> <p>4.CHC-205 Pharmaceutical Chemistry -I (02)</p>		
	<p style="text-align: center;">PHYSICS</p> <p>1.PHY-202 Electronics (04)</p> <p>2.PHY-203 Optics and Modern Physics (04)</p> <p>3. PHY-204 Classical Mechanics I (04)</p> <p>4.PHY-205 Mathematical methods of Physics I (02)</p>		
	<p style="text-align: center;">ZOOLOGY</p> <p>1.ZOO-202: Biology of Chordates (04)</p> <p>2.ZOO-203 Biochemistry (04)</p> <p>3. ZOO-204 Vertebrate Anatomy (04)</p> <p>4.ZOO-205 Basic Entomology (02)</p>		

	<p style="text-align: center;">COMPUTER SCIENCE</p> <p>1. CSC-202 Data Structures and Algorithms (04)</p> <p>2. CSC-203 Object Oriented Technologies (04)</p> <p>3. CSC-204 Operating System (04)</p> <p>4. CSC-205 Operating System Lab (02)</p>		
	<p style="text-align: center;">MATHEMATICS</p> <p>1. MAT-202: Analysis (04)</p> <p>2. MAT-203 Linear Algebra (04)</p> <p>3. MAT-204 Basic Number Theory (04)</p> <p>4. MAT-205 Analytical 2D Geometry (02)</p>		