

## Broad Discipline – Natural and Physical Sciences (SCIENCE)

### Major and Minor Courses

Choose a pair from the following for semester I and the corresponding pair will be offered for semester II.

SEMESTER I		SEMESTER II	
Major (4 Credits)	Minor (4 Credits)	Major (4 Credits)	Minor (4 Credits)
Chemistry	Geology	Electronics	Physics
Geology	Chemistry	Physics	Electronics
Electronics	Physics	Geology	Chemistry
Physics	Electronics	Chemistry	Geology
Chemistry	Electronics	Geology	Physics
Electronics	Chemistry	Physics	Geology
Geology	Physics	Electronics	Chemistry

*Note: Physics Major will not be offered from Semester III onwards.*

### Skill Enhancement Courses (SEC)

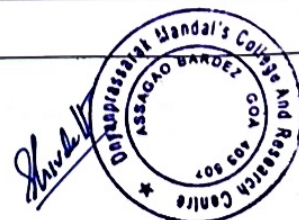
Choose a course from the following for semester I and the corresponding course will be offered for semester II.

SEMESTER I (3 Credits)	SEMESTER II (3 Credits)
SEC-1 CHC-141 (Water and Soil Analysis) SEC-2 CHC-142 (Skills in Qualitative Organic Analysis) SEC-3 CHC-143 Chemistry of Cosmetics and Perfumes	(Any 2)
SEC-1 GEO 141 Introduction to Remote sensing and Drone Photography	SEC-2 GEO 142 Water Quality Assessment
SEC-1 ELE-141: Electronics for Beginners	SEC-2 ELE-142: PCB Designing and Fabrication
SEC-1 PHY-141 Basic Experimental Techniques OR SEC-2 PHY-142 Photography	SEC-3 PHY-143 House Electrical Wiring OR SEC-4 PHY-144 PCB Designing

### Multidisciplinary Courses (MC)

Choose a course from the following for semester I and the corresponding course will be offered for semester II.

SEMESTER I (3 Credits)	SEMESTER II (3 Credits)
COM 132 - Fundamentals of Stock Market	COM 140 - Economics of Financial Investments
HIS 131- Indigenous Heritage of Goa	HIS 132 - Women in Goan History
Eco 131 - Sustainable development	ECO 132 - Globalisation



MAT 131 - Mathematical Techniques in Competitive Exams	MAT 132 - Descriptive Statistics
CSC 131 - Emerging Trends in Computers	CSC 133 - Cyber Security Essentials
GOG-131: Astronomical Geography	GOG-132: Major World Environments

**Value Added Courses**

Choose a pair from the following courses for semester I and the corresponding pair will be offered for semester II.

SEMESTER I (2 + 2 = 4 Credits)	SEMESTER II (2 + 2 = 4 Credits)
<b>a) Environmental Science and Education:- (2 Credits paper I)</b> VAC 101: Environmental Studies I OR VAC 104 - Sustainable Development & Ecology	<b>c) Digital and Technological Solutions:- (2 Credits paper III)</b> VAC 113: Green Energy Systems OR VAC 114: Medical Gadgets for Health Care
<b>b) Understanding India: (2 Credits paper II)</b> VAC 109: Introduction to The Folktales of India	<b>d) Health &amp; Wellness, Yoga education, sports and fitness: (2 Credits paper IV)</b> VAC 118: Youth Empowerment using Mind Management OR VAC 120: Exercise Science and Nutrition for Fitness
<b>a) Digital and Technological Solutions: (2 Credits paper III)</b> VAC 113: Green Energy Systems OR VAC 114: Medical Gadgets for Health Care	<b>c) Environmental Science and Education: (2 Credits paper I)</b> VAC 101: Environmental Studies I OR VAC 104 - Sustainable Development & Ecology
<b>b) Health &amp; Wellness, Yoga education, sports and fitness: (2 Credits paper IV)</b> VAC 118: Youth Empowerment using Mind Management OR VAC 120: Exercise Science and Nutrition for Fitness	<b>d) Understanding India: (2 Credits paper II)</b> VAC 109: Introduction to The Folktales of India

**Ability Enhancement Course (AEC)**

This is a compulsory course for 2 credits

SEMESTER I (2 Credits)	SEMESTER II (2 Credits)
ENG-151: Communicative English: Spoken and Written	AEC-2 ENG-152: Digital Content Creation in English

**NOTE:**

- (i) Multidisciplinary courses (MC) will be offered only to those students who do not have exposure to the subject at the Std XII level.
- (ii) Skill Enhancement Courses (SEC) and Value Added Courses (VAC) courses will be offered depending on the number of students applying of the same and/or availability of seats.

