

## Selection of Discipline

You need to select three disciplines from the table given below. You can select only one discipline from any particular group:

Group-1	Physics		
Group-2	Chemistry		
Group-3	Mathematics	Botany	
Group-4	Zoology	Geography	
Group-5	Geology		

## Discipline-Wise List of Courses for B. Sc. (General) Programme

The list of courses available under each of the four categories [Discipline Specific Core Courses (DSC), Discipline Specific Electives (DSE), Ability Enhancement Compulsory Courses (AECC), and Skill Enhancement Courses (SEC)] is given in the following tables:

**Table 1: Discipline Specific Core (DSC) Courses**

### Botany

Course Code	Title of the Course	No. of Credits	Remarks
BBYCT-131	Biodiversity (Microbes, Algae, Fungi and Archegoniates)	04	} To be taken together
BBYCL-132	Biodiversity (Microbes, Algae, Fungi and Archegoniates): Laboratory	02	
BBYCT-133	Plant Ecology and Taxonomy	04	} To be taken together
BBYCL-134	Plant Ecology and Taxonomy: Laboratory	02	
BBYCT-135	Plant Anatomy and Embryology	04	} To be taken together
BBYCL-136	Plant Anatomy and Embryology: Laboratory	02	
BBYCT-137	Plant Physiology and Metabolism	04	} To be taken together
BBYCL-138	Plant Physiology and Metabolism: Laboratory	02	

### Chemistry

Course Code	Title of the Course	No. of Credits	Remarks
BCHCT-131	Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons	04	} To be taken together
BCHCL-132	Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons : Laboratory	02	
BCHCT-133	Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I	04	} To be taken together
BCHCL-134	Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I :	02	

	Laboratory		
BCHCT-135	Solutions, Phase equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II	04	} To be taken together
BCHCL-136	Solutions, Phase equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II : Laboratory	02	
BCHCT-137	Coordination Chemistry, States of Matter and Chemical Kinetics	04	} To be taken together
BCHCL-138	Coordination Chemistry, States of Matter and Chemical Kinetics : Laboratory	02	

### Geography

Course Code	Title of the Course	No. of Credits	Remarks
BGGCT-131	Physical Geography	06	
BGGCT-132	Human Geography	06	
BGGCT-133	General Cartography	04	} To be taken together
BGGCL-134	General Cartography: Laboratory	02	
BGGCT-135	Environmental Geography	06	

### Geology

Course Code	Title of the Course	No. of Credits	Remarks
BGYCT-131	Physical and Structural Geology	04	} To be taken together
BGYCL-132	Physical and Structural Geology: Laboratory	02	
BGYCT-133	Crystallography, Mineralogy and Economic Geology	04	} To be taken together
BGYCL-134	Crystallography, Mineralogy and Economic Geology : Laboratory	02	
BGYCT-135	Petrology	04	} To be taken together
BGYCL-136	Petrology: Laboratory	02	
BGYCT-137	Stratigraphy and Palaeontology	04	} To be taken together
BGYCL-138	Stratigraphy and Palaeontology: Laboratory	02	

### Mathematics

Course Code	Title of the Course	No. of Credits	Remarks
BMTC-131	Calculus	6	
BMTC-132	Differential Equations	6	
BMTC-133	Real Analysis	6	

BMTC-134	Algebra	6	
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### Physics

Course Code	Title of the Course	No. of Credits	Remarks
BPHCT-131	Mechanics	04	} To be taken together
BPHCL-132	Mechanics: Laboratory	02	
BPHCT-133	Electricity and Magnetism	04	} To be taken together
BPHCL-134	Electricity and Magnetism: Laboratory	02	
BHPCT-135	Thermal Physics and Statistical Mechanics	04	} To be taken together
BPHCL-136	Thermal Physics and Statistical Mechanics: Laboratory	02	
BPHCT-137	Wave and Optics	04	} To be taken together
BPHCL-138	Wave and Optics: Laboratory	02	

### Zoology

Course Code	Title of the Course	No. of Credits	Remarks
BZYCT-131	Animal Diversity	04	} To be taken together
BZYCL-132	Animal Diversity: Laboratory	02	
BZYCT-133	Comparative Anatomy and Developmental Biology of Vertebrates	04	} To be taken together
BZYCL-134	Comparative Anatomy and Developmental Biology of Vertebrates: Laboratory	02	
BZYCT-135	Physiology and Biochemistry	04	} To be taken together
BZYCL-136	Physiology and Biochemistry: Laboratory	02	
BZYCT-137	Genetics and Evolutionary Biology	04	} To be taken together
BZYCL-138	Genetics and Evolutionary Biology: Laboratory	02	

**Table 2: Discipline Specific Elective (DSE) Courses**

Course Code	Title of the Course	No. of Credits	Remarks
<b>Discipline/Subject: BOTANY</b>			
BBYET-141	Cell and Molecular Biology	04	} To be taken together
BBYEL-142	Cell and Molecular Biology: Laboratory	02	
BBYET-143	Economic Botany and Biotechnology	04	} To be taken together
BBYEL-144	Economic Botany and Biotechnology: Laboratory	02	
<b>Discipline/Subject: CHEMISTRY</b>			
BCHET-141	Analytical Methods in Chemistry	04	} To be taken together
BCHEL-142	Analytical Methods in Chemistry : Laboratory	02	

BCHET-149	Molecules of Life	04	} To be taken together
BCHEL-150	Molecules of Life : Laboratory	02	
BCHET-145	Quantum Chemistry, Spectroscopy and Photochemistry	04	} To be taken together
BCHEL-146	Quantum Chemistry, Spectroscopy and Photochemistry : Laboratory	02	
BCHET-147	Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy	04	} To be taken together
BCHEL-148	Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy : Laboratory	02	
<b>Discipline/Subject: GEOGRAPHY</b>			
BGGET-141	Geography of India	06	
BGGET-142	Economic Geography	06	
<b>Discipline/Subject: GEOLOGY</b>			
BGYET-141	Ore Geology and Industrial Minerals	04	} To be taken together
BGYEL-142	Ore Geology and Industrial Minerals: Laboratory	02	
BGYET-147	Geomorphology and Geotectonics	04	} To be taken together
BGYEL-148	Geomorphology and Geotectonics: Laboratory	02	
<b>Discipline/Subject: MATHEMATICS</b>			
BMTE-141	Linear Algebra	6	
BMTE-144	Numerical Analysis	6	
<b>Discipline/Subject: PHYSICS</b>			
BPHET-141	Elements of Modern Physics	04	} To be taken together
BPHEL-142	Elements of Modern Physics: Laboratory	02	
BPHET-143	Digital and Analog Circuits and Instrumentation	04	} To be taken together
BPHEL-144	Digital and Analog Circuits and Instrumentation: Laboratory	02	
<b>Discipline/Subject: ZOOLOGY</b>			
BZYET-141	Immunology	04	} To be taken together
BZYEL-142	Immunology: Laboratory	02	
BZYET-143	Insect Vectors and Vector Borne Diseases	04	} To be taken together
BZYEL-144	Insect Vectors and Vector Borne Diseases: Laboratory	02	

### Skill Enhancement Courses (SEC)

Skill Enhancement Courses (SECs) are also ability enhancement courses. These courses seek to build specific skills set in some applied functional area of daily life. Each Skill Enhancement Course (SEC) is of four credits. These courses are on offer from the third semester onwards. A number of SECs are on offer in each semester. You will have to opt for only one SEC each semester from the common pool. SECs that are available from the common pool in each semester are given in Table 4 below:

**Table 3 Skill Enhancement Courses (SECs)\***

Third Semester		Fourth Semester	
Indira Gandhi National Open University	BANS 183 Tourism Anthropology	BANS 184 Public Health and Epidemiology	
	Optional Intelligence	BECS 184 Data Analysis	
	Developing Emotional	BPAS 184 Logistics Management	
	Competence	BPCS 184 School Psychology	
	BEGS 183 Writing and Study Skills	BPCS 186 Managing Stress	
	BHDS 183 अनुवाद सिद्धांत और प्रविधि	BSOS 184 Techniques of Ethnographic Film Making	
BCOS-183: Computer Application in Business	BHDS 184 रेडियो लेखन		
BCHS-183: Laboratory Management Skills	BCOS-184: E-Commerce		
Fifth Semester		Sixth Semester	
	BPCS 187 Managing Human Resources	BPAS 186 Stress and Time Management	
	BSOS 185 Society through the Visual	BPCS 188 Application of Social Psychology Teaching	
	BEGS 185 English Language	BEGS 186 Business Communication	
	BHDS185 टेलीविजन लेखन	BHDS 186 समाचार संकलन और लेखन	

- Detail of these courses are given in BAG and BCOMG Programme Guides

**Table 4: Ability Enhancement Compulsory Course**

**Environmental Studies**

Course Code	Title of the Course	No. of Credits
BEVAE-181	Environmental Studies	4

**English**

Course Code	Title of the Course	No. of Credits
BEGAE-182	English Communication Skills	4

**Hindi**

Course Code	Title of the Course	No. of Credits
BHDAE-182	हिंदी भाषा और संप्रेषण	4