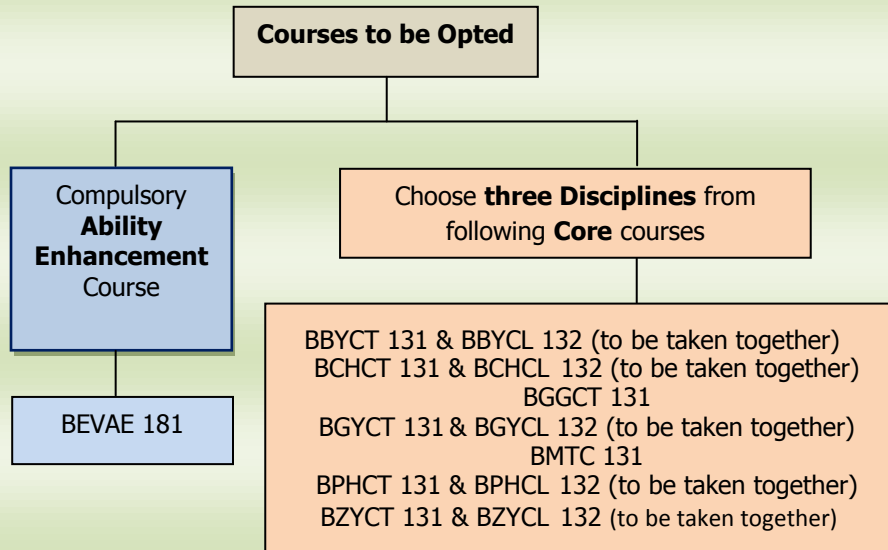


## JULY 2019 SESSION – Bachelor of Science (GENERAL) (BCSG): UNDER CBCS PATTERN

- **Total Number of Credits** to be completed during six semesters of BA (General): **132 (22 credits per semester)**
- **Three disciplines** are to be chosen from following seven disciplines (**please be careful** while choosing disciplines because you will have to study the same discipline [**Core and Discipline Specific courses**] for all the six semesters)

Botany, Chemistry, Geography, Geology, Mathematics, Physics and Zoology

### Semester 1



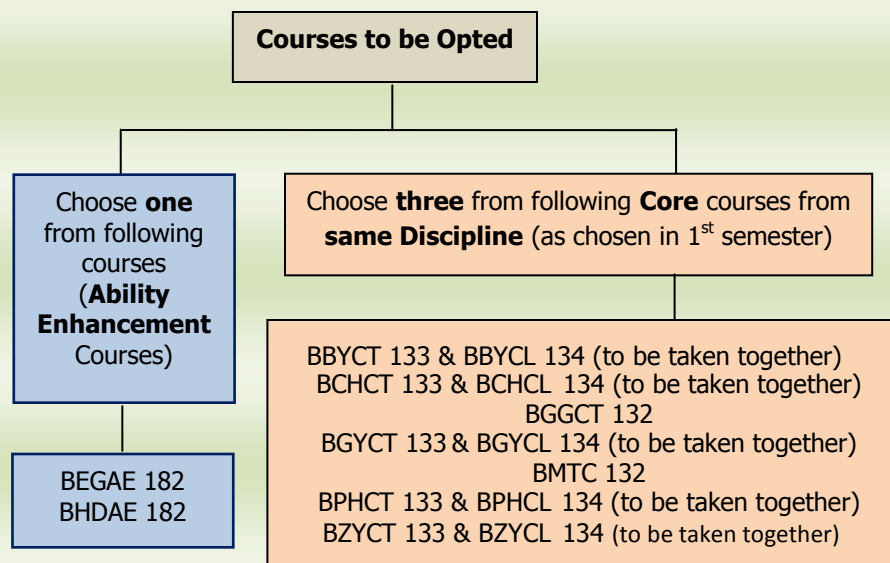
### Course Codes with Titles

Discipline	Course Code (No. of credits)	Title of the Course
<b>Ability Enhancement Course</b>		
	BEVAE 181 (4)	Environmental Studies
<b>Core Courses</b>		
Botany	BBYCT 131 (4)	Biodiversity (Microbes, Algae, Fungi and Archegoniates)
	BBYCL 132 (2)	Biodiversity (Microbes, Algae, Fungi and Archegoniates): Laboratory
Chemistry	BCHCT 131 (4)	Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons
	BCHCL 132 (2)	Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons : Laboratory
Geography	BGGCT 131 (6)	Physical Geography
Geology	BGYCT 131 (4)	Physical and Structural Geology
	BGYCL 132 (2)	Physical and Structural Geology: Laboratory
Mathematics	BMTC 131 (6)	Calculus
Physics	BPHCT 131 (4)	Mechanics
	BPHCL 132 (2)	Mechanics: Laboratory
Zoology	BZYCT 131 (4)	Animal Diversity
	BZYCL 132 (2)	Animal Diversity: Laboratory

- As per CBCS, in disciplines such as **Botany, Chemistry, Geology, Physics and Zoology**, where **Laboratory work is compulsory**, **6 Credit Course** is offered as a **combination of two Courses** in the same subject area i.e. **4 Credits Theory Course and 2 Credits Laboratory Course**. Both these courses in a given subject area of a discipline are to be **taken together compulsorily**.
- Every course offered by the **Mathematics** discipline, which does not require Laboratory work, is single course of **6 Credits** which includes **01 Credit worth of Tutorials**.
- In the **Geography** discipline, **some subject areas** do require **Laboratory works** whereas **some subject areas** do **not require Laboratory work**. Therefore, the **Courses** of the Geography discipline are of **two types**:
  - **Courses which require Laboratory work** – Each such Course is a combination of 4 Credits **Theory** Course and 2 Credits **Laboratory** Course (**both** these are to be **taken together compulsorily**)
  - **Courses which do not require Laboratory work** – Each such Course is of **6 Credits** and includes **01 Credit worth of Tutorials**.

## Bachelor of Science (GENERAL) (BCSG): UNDER CBCS PATTERN

### Semester 2

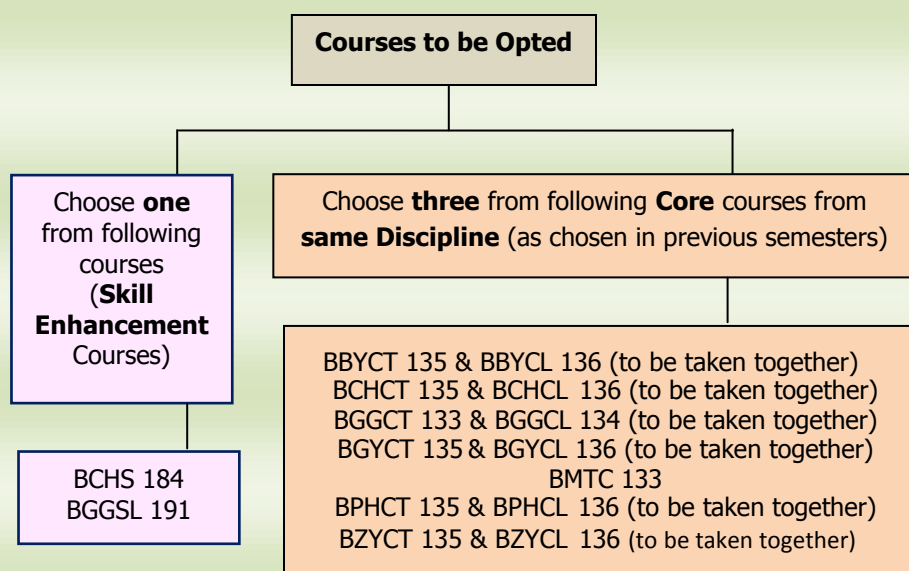


### Course Codes with Titles

Discipline	Course Code (No. of credits)	Title of the Course
<b>Ability Enhancement Courses</b>		
	BEGAE 182 (4)	English Communication Skills
	BHDAE 182 (4)	हिंदी भाषा और संप्रेषण
<b>Core Courses</b>		
Botany	BBYCT 133 (4)	Plant Ecology and Taxonomy
	BBYCL 134 (2)	Plant Ecology and Taxonomy: Laboratory
Chemistry	BCHCT 133 (4)	Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I
	BCHCL 134 (2)	Chemical Energetics, Equilibria and Functional Group Organic Chemistry-I : Laboratory
Geography	BGGCT 132 (6)	Human Geography
Geology	BGYCT 133 (4)	Crystallography, Mineralogy and Economic Geology
	BGYCL 134 (2)	Crystallography, Mineralogy and Economic Geology : Laboratory
Mathematics	BMTCT 132 (6)	Differential Equations
Physics	BPHCT 133 (4)	Electricity and Magnetism
	BPHCL 134 (2)	Electricity and Magnetism: Laboratory
Zoology	BZYCT 133 (4)	Comparative Anatomy and Developmental Biology of Vertebrates
	BZYCL 134 (2)	Comparative Anatomy and Developmental Biology of Vertebrates: Laboratory

## Bachelor of Science (GENERAL) (BCSG): UNDER CBCS PATTERN

### Semester 3

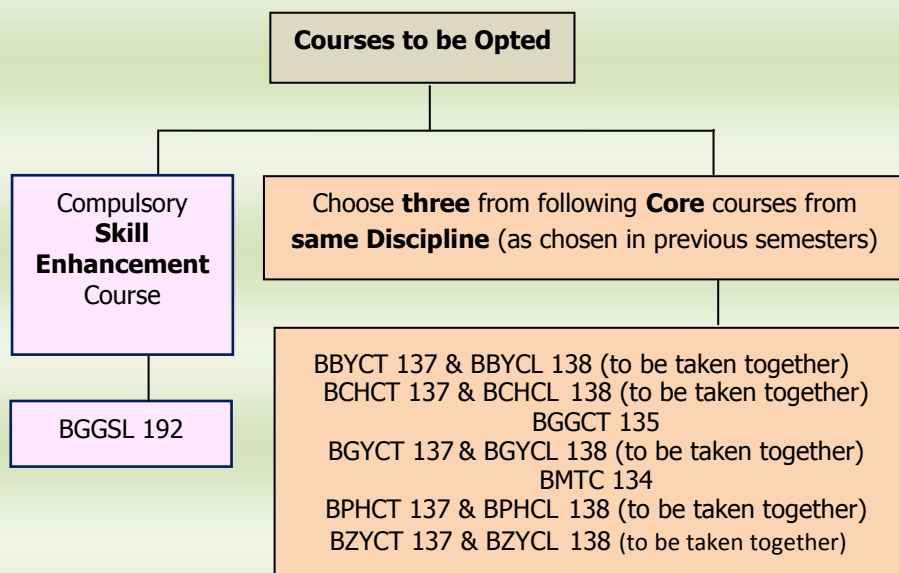


### Course Codes with Titles

Discipline	Course Code (No. of credits)	Title of the Course
<b>Skill Enhancement Courses</b>		
Chemistry	BCHS 184 (4)	Basics of Drugs and Pharmaceuticals Sale
Geography	BGGSL 191 (4)	Field Survey Methods: Laboratory
<b>Core Courses</b>		
Botany	BBYCT 135 (4)	Plant Anatomy and Embryology
	BBYCL 136 (2)	Plant Anatomy and Embryology: Laboratory
Chemistry	BCHCT 135 (4)	Solutions, Phase equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II
	BCHCL 136 (2)	Solutions, Phase equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II : Laboratory
Geography	BGGCT 133 (4)	General Cartography
	BGGCL 134 (2)	General Cartography: Laboratory
Geology	BGYCT 135 (4)	Petrology
	BGYCL 136 (2)	Petrology: Laboratory
Mathematics	BMTC 133 (6)	Real Analysis
Physics	BPHCT 135 (4)	Thermal Physics and Statistical Mechanics
	BPHCL 136 (2)	Thermal Physics and Statistical Mechanics: Laboratory
Zoology	BZYCT 135 (4)	Physiology and Biochemistry
	BZYCL 136 (2)	Physiology and Biochemistry: Laboratory

## Bachelor of Science (GENERAL) (BCSG): UNDER CBCS PATTERN

### Semester 4



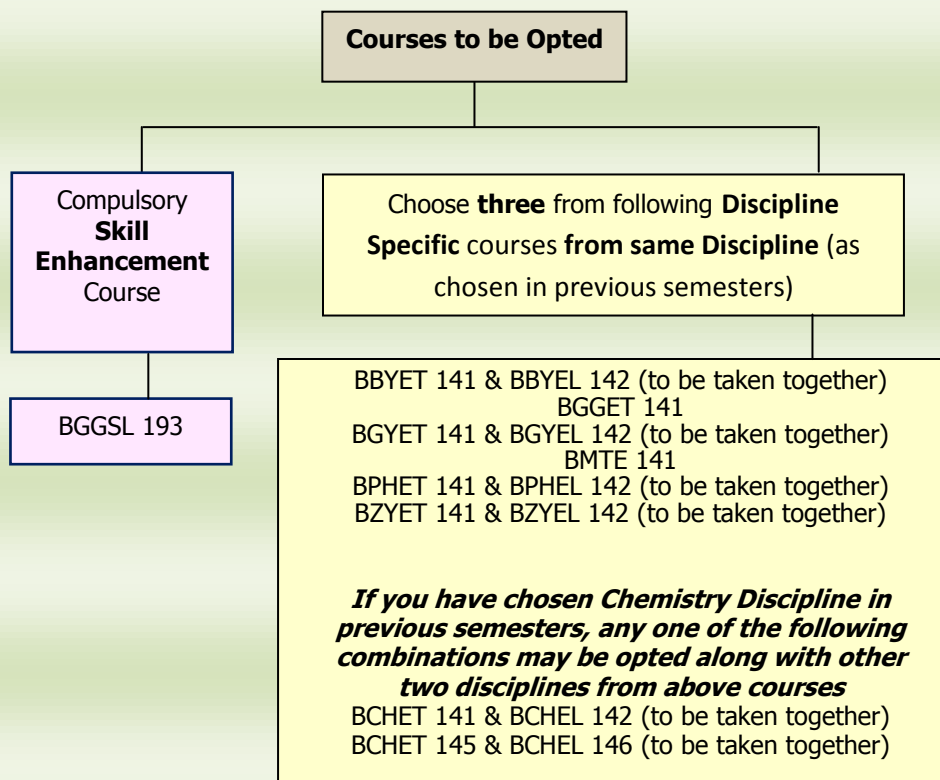
### Course Codes with Titles

Discipline	Course Code (No. of credits)	Title of the Course
<b>Skill Enhancement Course</b>		
Geography	BGGSL 192 (4)	Remote Sensing and GPS: Laboratory
<b>Core Courses</b>		
Botany	BBYCT 137 (4)	Plant Physiology and Metabolism
	BBYCL 138 (2)	Plant Physiology and Metabolism: Laboratory
Chemistry	BCHCT 137 (4)	Coordination Chemistry, States of Matter and Chemical Kinetics
	BCHCL 138 (2)	Coordination Chemistry, States of Matter and Chemical Kinetics: Laboratory
Geography	BGGCT 135 (6)	Environmental Geography
Geology	BGYCT 137 (4)	Stratigraphy and Palaeontology
	BGYCL 138 (2)	Stratigraphy and Palaeontology: Laboratory
Mathematics	BMTC 134 (6)	Algebra
Physics	BPHCT 137 (4)	Wave and Optics
	BPHCL 138 (2)	Wave and Optics: Laboratory
Zoology	BZYCT 137 (4)	Genetics and Evolutionary Biology
	BZYCL 138 (2)	Genetics and Evolutionary Biology: Laboratory

## Bachelor of Science (GENERAL) (BSCG): UNDER CBCS PATTERN

### Semester 5

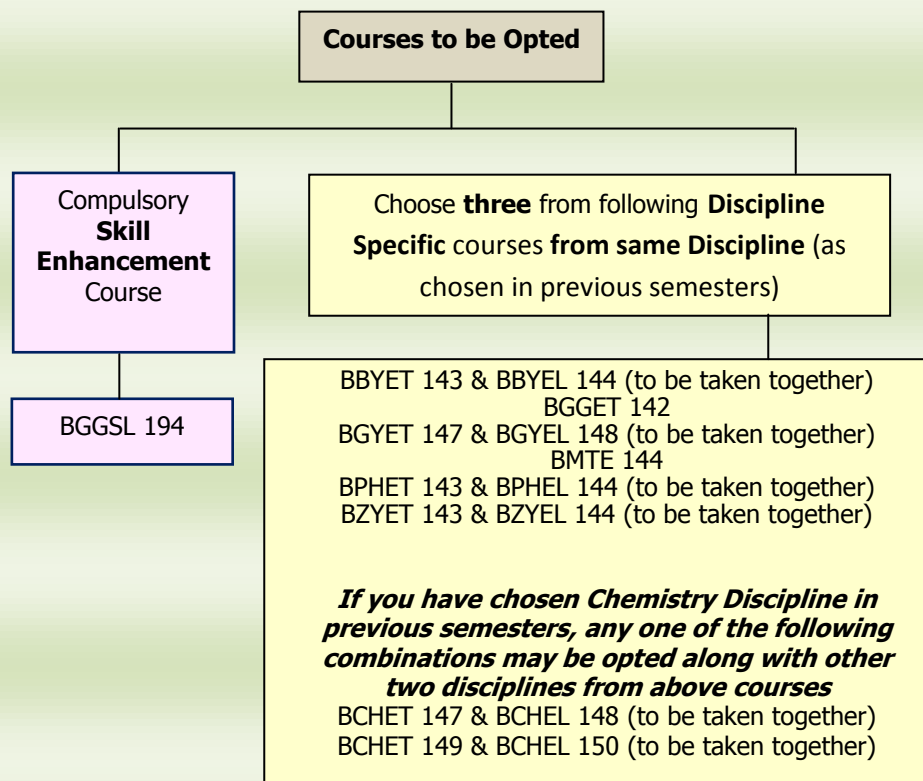
#### Course Codes with Titles



Discipline	Course Code (No. of credits)	Title of the Course
<b>Skill Enhancement Courses</b>		
Geography	BGGSL 193 (4)	Geographical Information System: Laboratory
<b>Discipline Specific Courses</b>		
Botany	BBYET 141 (4)	Cell and Molecular Biology
	BBYEL 142 (2)	Cell and Molecular Biology: Laboratory
Chemistry	BCHET 141 (4)	Analytical Methods in Chemistry
	BCHEL 142 (2)	Analytical Methods in Chemistry : Laboratory
	BCHET 145 (4)	Quantum Chemistry, Spectroscopy and Photochemistry
	BCHEL 146 (2)	Quantum Chemistry, Spectroscopy and Photochemistry: Laboratory
Geography	BGGET 141 (6)	Geography of India
Geology	BGYET 141 (4)	Ore Geology and Industrial Minerals
	BGYEL 142 (2)	Ore Geology and Industrial Minerals: Laboratory
Mathematics	BMTE 141 (6)	Linear Algebra
Physics	BPHET 141 (4)	Elements of Modern Physics
	BPHEL 142 (2)	Elements of Modern Physics: Laboratory
Zoology	BZYET 141 (4)	Immunology
	BZYEL 142 (2)	Immunology: Laboratory

## Bachelor of Science (GENERAL) (BSCG): UNDER CBCS PATTERN

### Semester 6



### Course Codes with Titles

Discipline	Course Code (No. of credits)	Title of the Course
<b>Skill Enhancement Courses</b>		
Geography	BGGSL 194 (4)	Techniques in Regional Development Planning: Laboratory
<b>Discipline Specific Courses</b>		
Botany	BBYET 143 (4)	Economic Botany and Biotechnology
	BBYEL 144 (2)	Economic Botany and Biotechnology: Laboratory
Chemistry	BCHET 147 (4)	Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy
	BCHEL 148 (2)	Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy: Laboratory
	BCHET 149 (4)	Molecules of Life
	BCHEL 150 (2)	Molecules of Life : Laboratory
Geography	BGGET 142 (6)	Economic Geography
Geology	BGYET 147 (4)	Geomorphology and Geotectonics
	BGYEL 148 (2)	Geomorphology and Geotectonics: Laboratory
Mathematics	BMTE 144 (6)	Numerical Analysis
Physics	BPHET 143 (4)	Digital and Analog Circuits and Instrumentation
	BPHEL 144 (2)	Digital and Analog Circuits and Instrumentation: Laboratory
Zoology	BZYET 143 (4)	Insect Vectors and Vector Borne Diseases
	BZYEL 144 (2)	Insect Vectors and Vector Borne Diseases: Laboratory