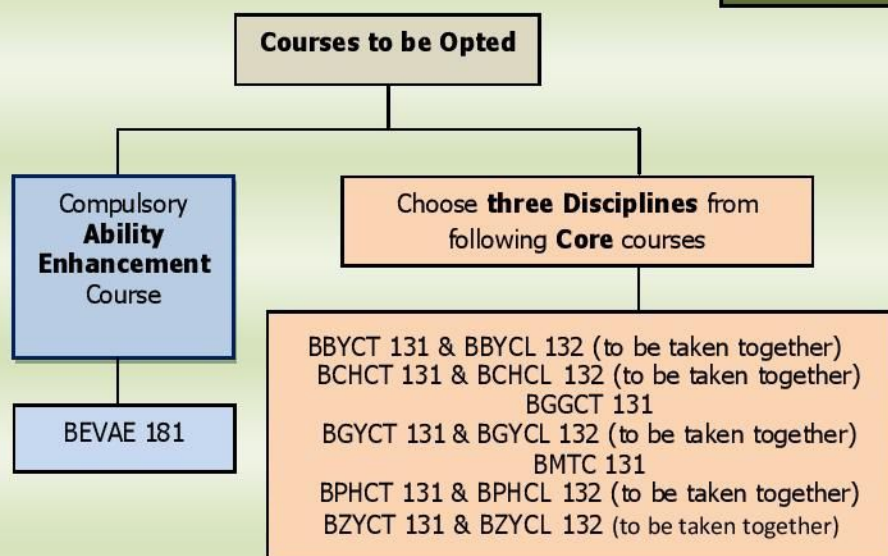


JULY 2019 SESSION – Bachelor of Science (GENERAL) (BSCG): UNDER CBCS PATTERN

- **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

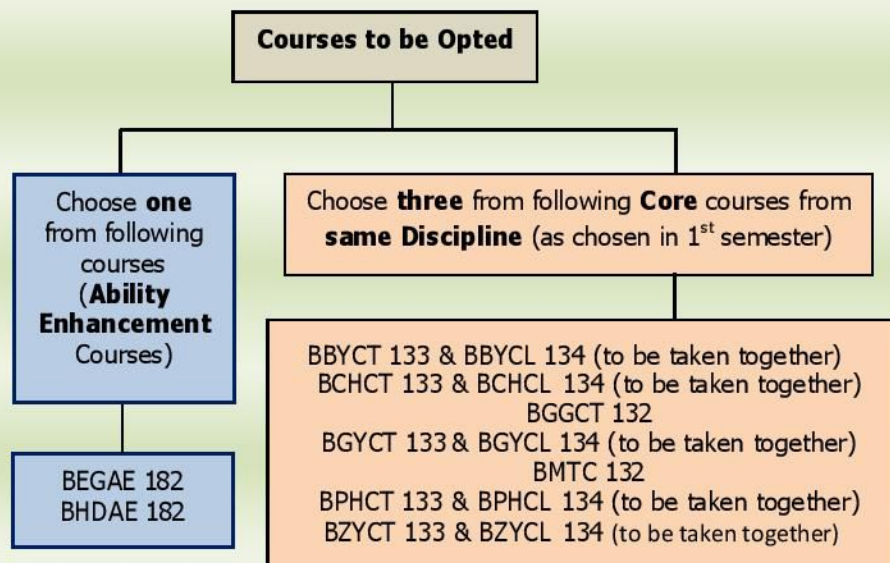
Discipline	Course Code (No. of credits)	Title of the Course
Ability Enhancement Course		
	BEVAE 181 (4)	Environmental Studies
Core Courses		
Botany	BBYCT 131 (4)	Biodiversity (Microbes, Algae, Fungi and Archegoniates)
	BBYCL 132 (2)	Biodiversity (Microbes, Algae, Fungi and Archegoniates): Laboratory
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	BMTCT 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**.

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Semester 2

Courses to be Opted



Course Codes with Titles

Discipline	Course Code (No. of credits)	Title of the Course
Ability Enhancement Courses		
	BEGAE 182 (4)	English Communication Skills
	BHDAE 182 (4)	हिंदी भाषा और संप्रेषण
Core Courses		
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	BMTC 132 (2)	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

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Semester 3

Courses to be Opted

Choose **one**
from following
courses
(**Skill
Enhancement
Courses**)

BCHS 184
BGGSL 191

Choose **three** from following **Core** courses from **same Discipline** (as chosen in previous semesters)

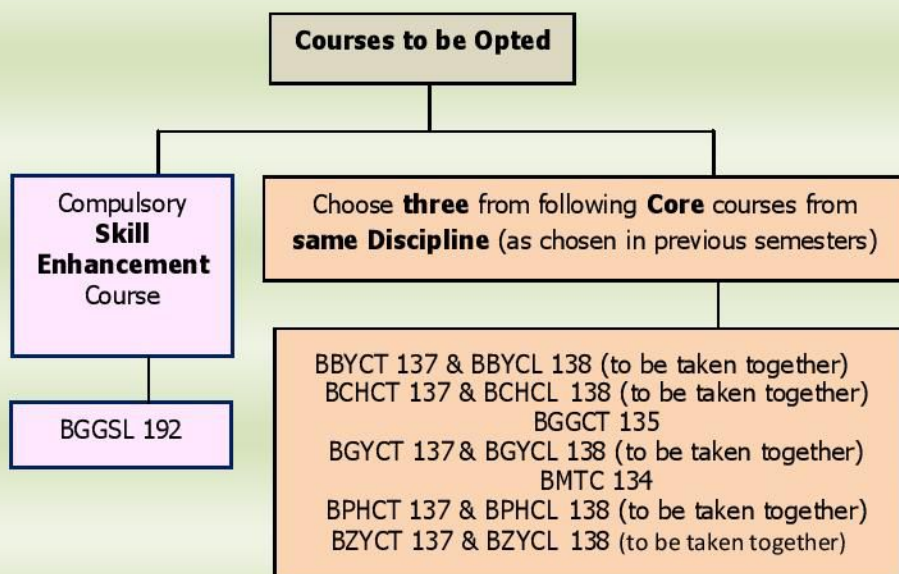
BBYCT 135 & BBYCL 136 (to be taken together)
 BCHCT 135 & BCHCL 136 (to be taken together)
 BGGCT 133 & BGGCL 134 (to be taken together)
 BGYCT 135 & BGYCL 136 (to be taken together)
 BMTC 133
 BPHCT 135 & BPHCL 136 (to be taken together)
 BZYCT 135 & BZYCL 136 (to be taken together)

Course Codes with Titles

Discipline	Course Code (No. of credits)	Title of the Course
Skill Enhancement Courses		
Chemistry	BCHS 184 (4)	Basics of Drugs and Pharmaceuticals Sale
Geography	BGGSL 191 (4)	Field Survey Methods: Laboratory
Core Courses		
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

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Semester 4



Course Codes with Titles

Discipline	Course Code (No. of credits)	Title of the Course
Skill Enhancement Course		
Geography	BGGSL 192 (4)	Remote Sensing and GPS: Laboratory
Core Courses		
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	BMTCL 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

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Semester 5

Courses to be Opted

Compulsory
**Skill
Enhancement
Course**

BGGSL 193

Choose **three** from following **Discipline
Specific** courses **from same Discipline** (as
chosen in previous semesters)

BBYET 141 & BBYEL 142 (to be taken together)
BGGET 141
BGYET 141 & BGYEL 142 (to be taken together)
BMTE 141
BPHET 141 & BPHEL 142 (to be taken together)
BZYET 141 & BZYEL 142 (to be taken together)

***If you have chosen Chemistry Discipline in
previous semesters, any one of the following
combinations may be opted along with other
two disciplines from above courses***

BCHET 141 & BCHEL 142 (to be taken together)
BCHET 145 & BCHEL 146 (to be taken together)

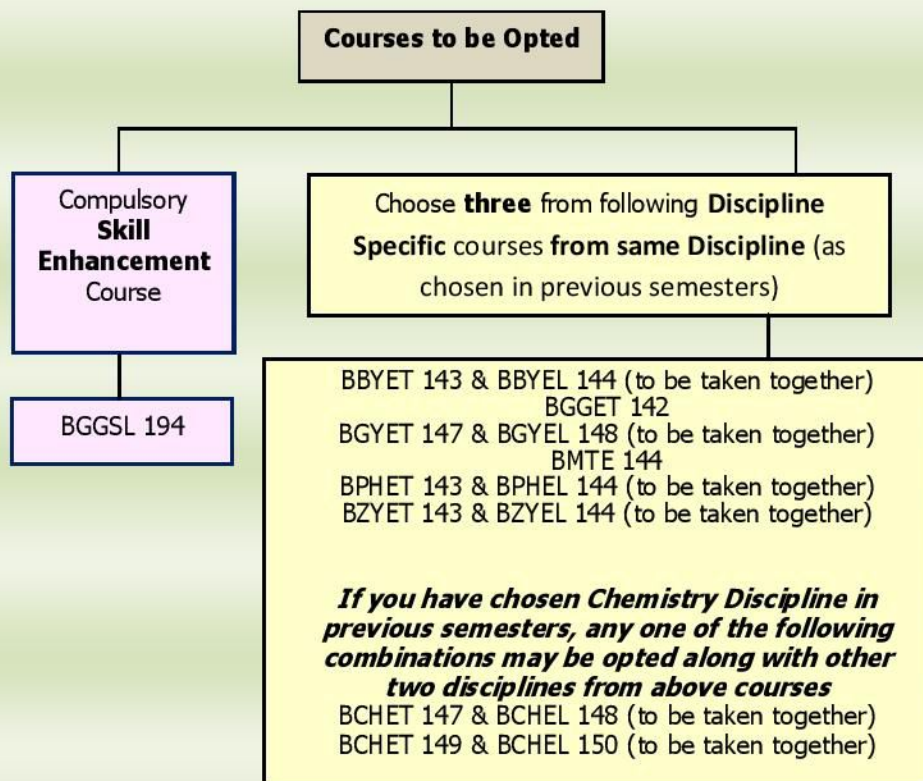
Course Codes with Titles

Discipline	Course Code (No. of credits)	Title of the Course
Skill Enhancement Courses		
Geography	BGGSL 193 (4)	Geographical Information System: Laboratory
Discipline Specific Courses		
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

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Semester 6

Course Codes with Titles



Discipline	Course Code (No. of credits)	Title of the Course
Skill Enhancement Courses		
Geography	BGGSL 194 (4)	Techniques in Regional Development Planning: Laboratory
Discipline Specific Courses		
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	BPJET 143 (4)	Digital and Analog Circuits and Instrumentation
	BPHEL 144 (2)	Digital and Analog Circuits and Instrumentation: Laboratory
Zoology	BZJET 143 (4)	Insect Vectors and Vector Borne Diseases
	BZYL 144 (2)	Insect Vectors and Vector Borne Diseases: Laboratory