



UNDERGRADUATE CURRICULUM FRAMEWORK BASED ON NATIONAL EDUCATION POLICY 2020

STRUCTURE AND MAIN FEATURES B.Sc (Honours) in SCIENCE COURSES

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NATIONAL EDUCATION POLICY 2020

MULTIPLE ENTRY AND EXIT SYSTEM (MEES):

The system allows students to drop their course and resume it at a later stage as and when they desire or deem it worth pursuing

MULTIPLE CHOICES OF COURSES OPTIONS (MCCO)

CURRICULUM FRAMEWORK LEADING TO DIFFERENT CERTIFICATIONS/ DIPLOMAS/ DEGREES

TYPES OF COURSES IN UGCF

Honours in a Field of Study/ Discipline

Example: B.Sc (H) Biochemistry or Botany or Zoology or Chemistry or Physics etc

Multidisciplinary Courses

Example: B.Sc Life Science

DEFINITIONS

1

ACADEMIC CREDIT— An academic credit is a unit by which the course work is measured. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.

2

COURSES OF STUDY – It indicates the pursuance of study in a particular discipline. Here three categories of courses of study, viz. Discipline Specific Core courses (DSCs), Discipline Specific Electives (DSEs) and Generic Electives (GEs).

3

- Ability Enhancement course (AEC)
- Skill Enhancement Course (SEC)
- Value Addition Course (VAC)

These three courses shall be a pool of courses offered by all the Departments.

DEFINITIONS

5

Major discipline: A student pursuing four-year undergraduate programme in a specific discipline (Core course eg- Chemistry or Botany etc) shall be awarded an appropriate Honours degree with Major in a Discipline on completion of VIII Semester, A student need to secures at least 50% of the total credits (minimum 88 credits in the Discipline) from 20 DSCs and at least two DSEs in order to get Major in Chemistry or Botany etc.

6

A student pursuing four-year undergraduate programme in more than one discipline as Core Course (for example B.Sc. Life Sciences, student shall be awarded Honours degree with Major in a Discipline on completion of VIII Semester, if he/she secures in that Discipline 80 credits out of a total of 176 credits.

7

Minor discipline: A student study in a specific discipline may be awarded Minor in a discipline, on completion of VIII Semester, if he/she earns minimum 28 credits from seven GE courses of that discipline.

For Example if the student pursuing B.Sc. (Honours) Botany chooses seven GE courses of Chemistry out of a total of ten GE courses and writes dissertation, he/she shall be awarded on successful completion of VIII Semester, Major in Botany and Minor in Chemistry Etc.

ACADEMIC CREDIT:

Count of number of hours for which a course is taught in a week.

Lecture (L)

**1 Hour of Lecture = 1
Credit**

Tutorial (T)

1 hour = 1 Credit

Practical (P)

2 hours = 1 Credit



DIFFERENT COURSES OF STUDY

Discipline Specific Core courses (DSCs)

Discipline Specific Electives (DSEs)

Generic Electives (GEs)

Ability Enhancement course (AEC)

Skill Enhancement Course (SEC)

Value Addition Course (VAC)

DISCIPLINE RELATED PAPERRRS

DISCIPLINE SPECIFIC CORE COMPULSORY PAPERS

Discipline Specific Core is a course of study, which should be pursued by a student as a mandatory requirement of his/her programme of study.

For example, B.Sc. (Honours) Chemistry or Botany or Physics etc



DSC
Credits:4

DISCIPLINE SPECIFIC ELECTIVES OPTIONAL PAPERS

The Discipline Specific Electives (DSEs) shall be a pool of credit courses of that particular discipline (single discipline programme of study)

For example, B.Sc. (Honours) Botany

DSEs chosen should be from a pool of DSEs of Chemistry or Botany or Physics etc



DSE
Credits:4

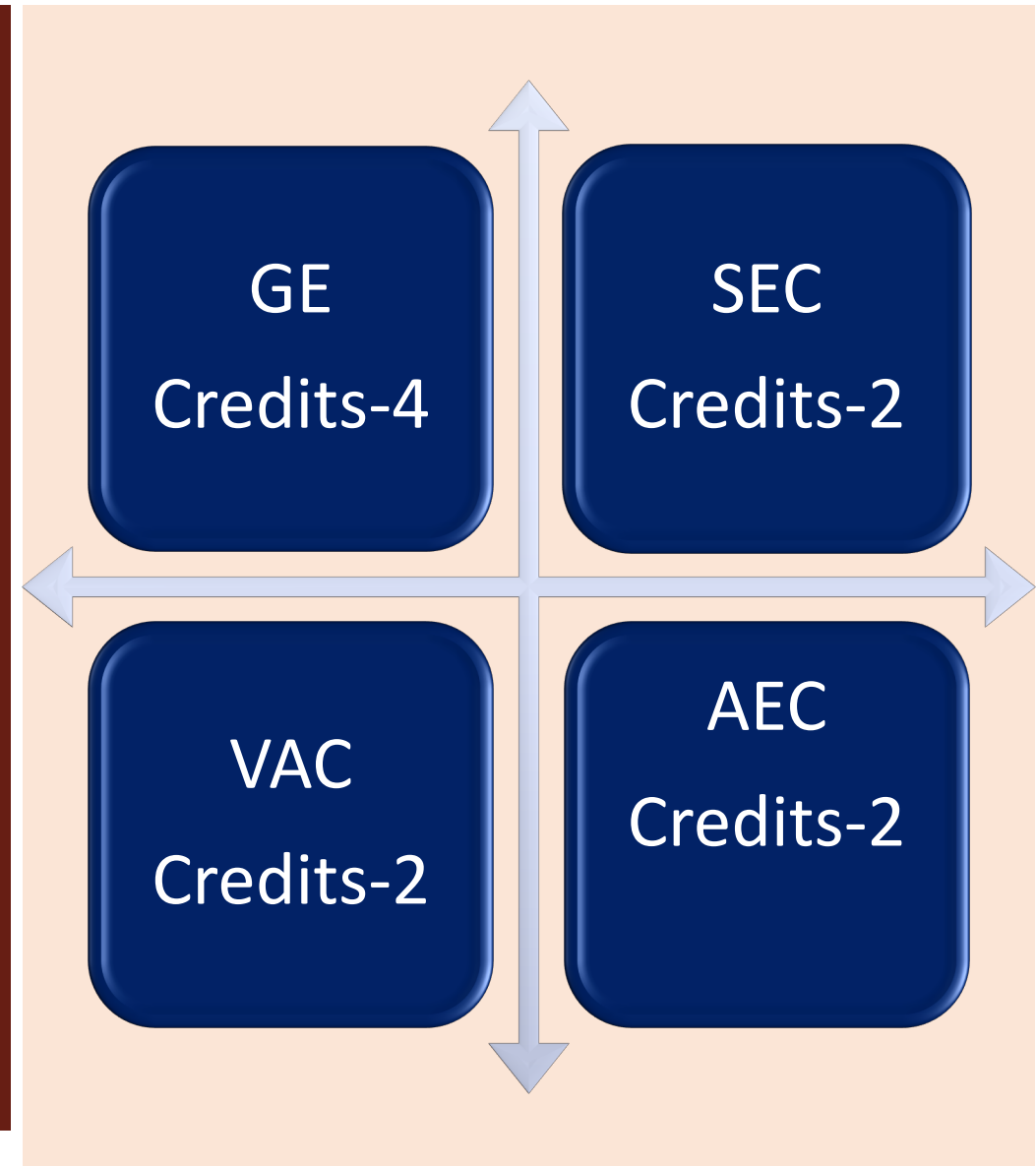
BEYOND DISCIPLINE

GE: Generic Elective: Generic Electives shall be a pool of courses which is meant to provide multidisciplinary or interdisciplinary education to students.

SEC: Skill Enhancement Course- skill-based courses in all disciplines and are aimed at providing hands-on-training, competencies, proficiency and skills to students

VAC: Value Addition Course- The common pool of courses offered by different disciplines and aimed towards personality building; embedding ethical, cultural and constitutional values; promote critical thinking etc.

AEC: Ability Enhancement: courses are the courses based upon the content that leads to knowledge enhancement through various areas of study. Course:
Indian Languages/ EVS



FIRST YEAR (Honours in a Field of Study/ Discipline)

Sem	Core DSC	DSE	GE	AEC	SEC	Intern-ship	VAC	Total Credits
1st	DSC-1 (4)		GE-1 Choose From a pool of courses (4)	Choose one from a pool of AEC courses (2)	Choose from a pool of courses (2)		Choose one from a pool of courses (2)	22
	DSC-2 (4)							
	DSC-3 (4)							
2nd	DSC-4 (4)		GE- 2 Choose From a pool of courses (4)	Choose one from a pool of AEC courses (2)	Choose from a pool of courses (2)		Choose one from a pool of courses (2)	22
	DSC-5 (4)							
	DSC-6 (4)							

EXIT with 44 Credits: Undergraduate Certificate (in the Discipline)

Sem	Core DSC	DSE	GE	AEC	SEC	Intern-ship	VAC	Total Credits
III	DSC - 7(4)	Choose one from pool of courses, DSE – 1 (4) OR	Choose one from pool of courses, GE -3 (4)**	Choose one from a pool of AEC courses (2)	Choose one SEC OR Internship/Apprenticeship/Project/Community Outreach (IAPC) (2)*	Choose one from a pool of courses (2)		22 credits
	DSC - 8(4)							
	DSC -9 (4)	Choose one from pool of courses, DSE – 2 (4) OR in the alternative choose one from pool of courses GE - 4 (4)**		Choose one from a pool of AEC courses (2)	Choose one SEC OR Internship/Apprenticeship/Project/community outreach (IAPC) (2)*	Choose one from a pool of courses (2)		22 Credits
IV	DSC - 10(4)							
	DSC - 11(4)							
	DSC – 12(4)							
Students on exit shall be awarded Undergraduate Diploma (in the Field of Study/ Discipline) after securing the requisite 88 credits on completion of Semester IV								Total – 88

IAPC: Internship/ Apprenticeship/Project/ Community

❖After securing **88 credits** (from semester I, II, III & IV), by completing **two years of study** of the UG honours Programme with Botany as a single core discipline, if a student exits after following due procedure, he or she shall be awarded **Diploma in DISCIPLINE**

Sem	Core DSC	DSE	GE	AEC	SEC	Intern- ship	VAC	Total Credits
V	DSC - 13(4)	Choose one from a pool of courses DSE - 3 (4)	Choose one from a pool of courses GE-5 (4)		Choose one SEC OR Internship/Apprenticeship/ Project/Community Outreach (IAPC) (2)***			22 credits
	DSC - 14(4)							
	DSC - 15(4)							

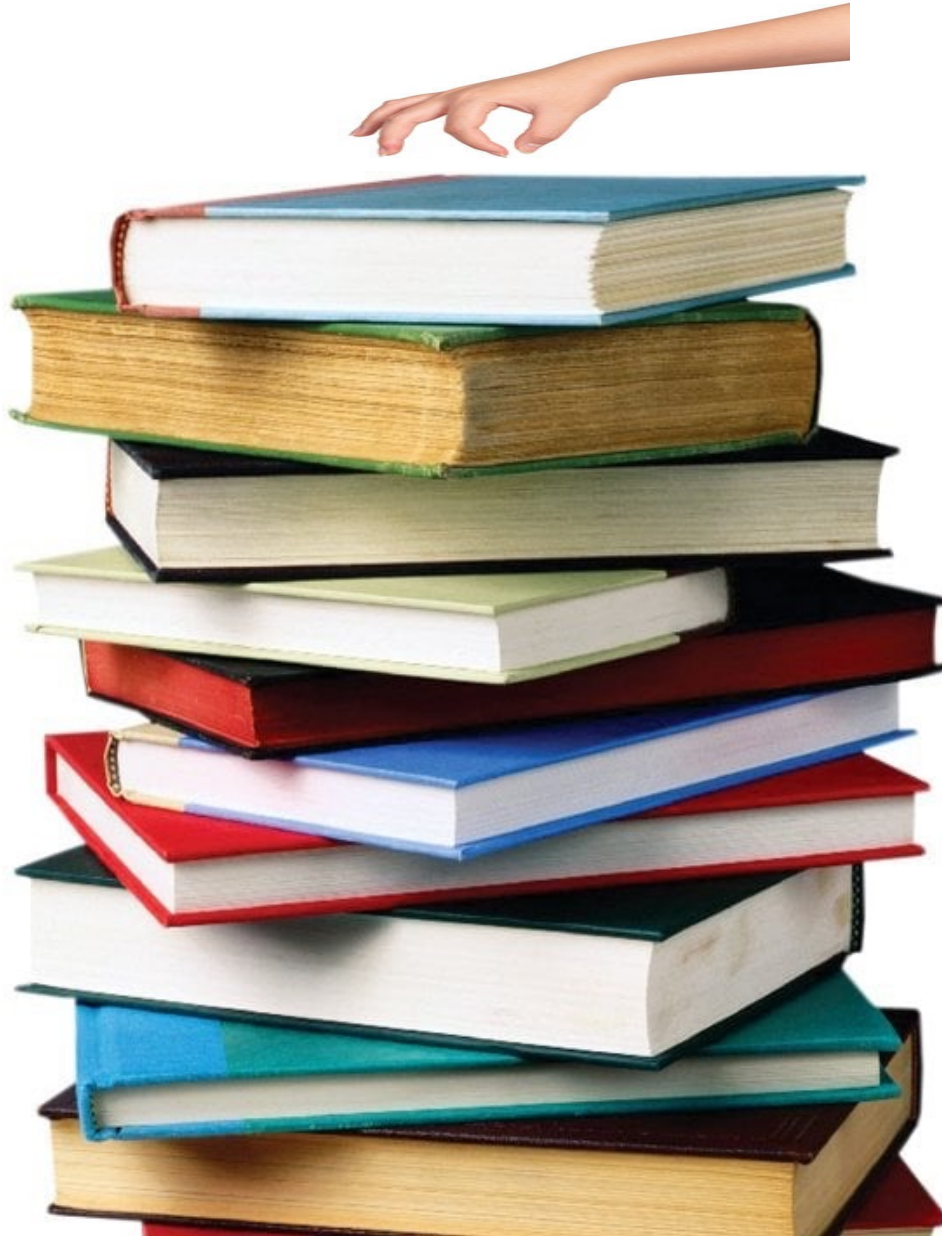
VI	DSC - 16(4)	Choose one from a pool of courses DSE - 4 (4)	Choose one from a pool of courses GE-6 (4)^		Choose one SEC OR Internship/Apprenticeship/ Project/Research/Community Outreach (2)***		22 credits
	DSC -17 (4)						
	DSC -18 (4)						
	Students on exit shall be awarded Bachelor of (in the Field of Study/Discipline) Honours (3 years) after securing the requisite 132 credits on completion of Semester VI						Total = 132

❖After securing **132 credits** (from semester I to VI), by completing **three years of study** of the UG honours Programme with Botany as a single core discipline, if a student exits after following due procedure, he or she shall be awarded **Bachelor of Science (Honours) in DISCIPLINE**

VII	DSC-19 (4)	Choose three DSE (3x4) courses OR Choose two DSE- (2x4) and one GE (4) ^ course OR Choose one DSE (4) and two GE (2x4) courses (total = 12)#				Dissertation on Major (6) OR Dissertation on Minor (6) OR Academic project/ Entrepreneurship (6)	22 credits
VIII	DSC -20 (4)	Choose three DSE (3x4) courses OR Choose two DSE- (2x4) and one GE (4) course OR Choose one DSE (4) and two GE (2x4) courses (total = 12)#				Dissertation on Major (6) OR Dissertation on Minor (6) OR Academic project/ Entrepreneurship (6)	22 credits
Students on exit shall be awarded Bachelor of (In the Field of Study/Discipline) (Honours with Research/Academic Projects/Entrepreneurship) or (Honours with Research in Discipline-1 (Major) with Discipline-2 (Minor) after securing the requisite 176 credits on completion of Semester VIII							Total - 176

❖After securing **176 credits** (from semester I to VIII), by completing four years of study of the UG honours Programme with Botany as a single core discipline and writes dissertation, the student shall be awarded **Bachelor of Science (Honours with Research)**.

➤ Skill Enhancement Course (SEC): CHOOSE ANY ONE



SEC
Credits-2

➤ Value Addition Course (VAC): CHOOSE ANY ONE



VAC
Credits-2

Generic Elective (GE) (Discipline Based) For Hons. and Life Sc.

Choose any one Other than Core Discipline

1 × 4 Credits = 4 Credits

GE

Credits-4



Ability Enhancement Course (AEC) (one)

1 × 2 Credits = 2 Credits

Indian Language (IL-1) (Choose any one):

1. Hindi

- हिंदी 'क' - हिन्दी भाषा: सम्प्रेषण और संचार
- हिंदी 'ख' - हिन्दी औपचारिक लेखन
- हिंदी 'ग' - कोशल मीडिया और ब्लॉग लेखन

2. Sanskrit

3. Manipuri

4. Punjabi

OR

Environmental Science: Theory into Practice-I

AEC
Credits-2

Multidisciplinary Courses

Example: B.Sc Life Science

Under Graduate in Field of Multidiscipline Example: B.Sc Life Science

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V	Discipline A 5 (4)	Choose one from a pool of courses DSE A/B/C - (4)	Choose one from a pool of courses GE-5 (4)		Choose one SEC OR Internship/Apprenticeship/ Project/Community outreach (2)		22 credits
	Discipline B 5 (4)						
	Discipline C 5 (4)						
VI	Discipline A 6 (4)	Choose one from a pool of courses DSE A/B/C – (4)	Choose one from a pool of courses GE-6 (4)		Choose one SEC OR 'Intern- ship/Apprenticeship/ Project/Research/Community Outreach (2)		22 credits
	Discipline B 6 (4)						
	Discipline C 6 (4)						
<i>Students on exit shall be awarded Bachelor of (in the Field of Multidisciplinary Study) after securing the requisite 132 credits on completion of Semester VI</i>							Total= 132
VII	DSC-(4)	Choose three DSE (3x4) courses OR Choose two DSE- (2x4) and one GE (4) course OR Choose one DSE (4) and two GE (2x4) courses (total = 12)				Dissertation on Major (4+2) OR Dissertation on Minor (4+2) OR Academic project/ Entrepreneurship (4+2)	22 credits

VIII	D SC - (4)	Choose three DSE (3x4) courses OR Choose two DSE-(2x4) one GE (4) course OR Choose one DSE (4) and two GE (2x4) courses (total = 12)	Course (AEC)	Course (SEC)	ship/Project (2)	Dissertation on Major (4+2) OR Dissertation on Minor (4+2) OR Academic project/ Entrepreneurship (4+2)	22 credits
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NOMENCLATURE OF CERTIFICATE/DIPLOMA/DEGREES

Sl. No.	Type of Award	Stage of exit	Mandatory Credits to be secured for the award
1.	Undergraduate Certificate in the field of Study/Discipline	After successful completion of Semester II	44
2.	Undergraduate Diploma in the field of Study/Discipline	After successful completion of Semester IV	88
3.	Bachelor of (field of Study) (Honours) Discipline (for single core discipline course of study)	After successful completion of Semester VI	132
4.	Bachelor of (field of Multidisciplinary courses of Study) (for multiple core disciplines courses of study)	After successful completion of Semester VI	132
5.	Bachelor of (field of Study/Discipline) (Honours with Research/Academic Projects /Entrepreneurship) Discipline (for single core discipline course of study)	After successful completion of Semester VIII	176
6.	Bachelor of (field of Multidisciplinary courses of study) (Honours)	After successful completion of Semester VIII	176

GRADE POINTS- which shall be used to reflect the outcome of assessment process of the student's performance

Letter Grades and Grade Points

Letter Grade	Grade point
O (outstanding)	10
A+ (Excellent)	9
A (Very good)	8
B+ (Good)	7
B (Above average)	6
C (Average)	5
P (Pass)	4
F (Fail)	0
Ab (Absent)	0



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