



NATIONAL EDUCATION POLICY (NEP)-2020

National Education Policy 2020 envisions a complete overhaul and re-energising of the Higher Education system to overcome these challenges and thereby deliver high-quality higher education, with equity and inclusion.

- The policy lays particular emphasis on the development of the creative potential of each individual. It is based on the principle that education must develop not only cognitive capacities - both the 'foundational capacities' of literacy and numeracy and 'higher-order' cognitive capacities, such as critical thinking and problem solving – but also social, ethical, and emotional capacities and dispositions.
- Higher education plays an extremely important role in promoting human as well as societal wellbeing and in developing India as envisioned in its Constitution - a democratic, just, socially conscious, cultured, and humane nation upholding liberty, equality, fraternity, and justice for all. Higher education significantly contributes towards sustainable livelihoods and economic development of the nation. As India moves towards becoming a knowledge economy and society, more and more young Indians are likely to aspire for higher education.
- To contribute to the realization of these aspirations, PGGCG-11 is committed to the philosophy of NEP 2020 and aims at fulfilling the mandate by imparting quality higher education to enable personal accomplishment and enlightenment, constructive public engagement, and productive contribution to the society. The institution will prepare students for more meaningful and satisfying lives and work roles and enable economic independence.
- The college has well-equipped infrastructure, qualified faculty, state of the art scientific set-up, and sumptuous academic repository complemented by sports facilities, green environs and numerous opportunities for beyond the classroom and holistic development of the students. The implementation of NEP 2020 will polish the learners as assets for the nation.

NEP Cell of the College

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NATIONAL EDUCATION POLICY (NEP)-2020

Bachelor of Science (B.Sc)-I



The following shall be applicable to the applicants seeking admission in B.Sc 1st Semester for the session 2026-27 as per the guidelines of NEP 2020:

The undergraduate degree will have a flexible duration of either three or four years, with multiple exit options during this period. The table below outlines the various certifications a student can earn at different stages of their undergraduate study:

Certification and Duration of Study with Multiple Entry Multiple Exit (MEME)

Duration of Study Completed	Semesters	Certification Earned
4 Years	Eight Semesters	Bachelor's Degree (Honours)
		Bachelor's Degree (Honours with Research)
3 Years	Six Semesters	Bachelor's Degree
2 Years	Four Semesters	Undergraduate Diploma
1 Year	Two Semesters	Undergraduate Certificate

B.Sc (General) degree programme will be of six semesters (three years).

- In the 1st semester, the student will be offered three subjects A, B and C. In addition, the student will offer one MDC, one SEC, and one VAC. English (compulsory) will be studied under AEC.
- MDC should be such a subject which is
 - not one of the subjects offered by the student that is A, B or C, and
 - not offered by the student at +2 level.
- In the third semester, the student will select one subjects as Major and two as Minors.

B.Sc Honours programme will be of eight semesters (four years).

- A student who secures 75% or more marks in aggregate till semester 6 (up to 3 year degree) shall be eligible for 4 YEAR DEGREE B.Sc HONOURS with research, on the condition that the institution is a PU approved Research Centre

MDC-MULTI-DISCIPLINARY/IDC-INTER-DISCIPLINARY COURSE (3credits)

*Students are not allowed to choose or repeat courses (subjects) already undergone/studied at the higher secondary level (12th class). That is, MDC should be such a subject which is

- not one of the subjects offered by the student, say A, B or C, and
- not studied by the student at +2 level.

AEC- ABILITY ENHANCEMENT COURSE-ENGLISH COMPULSORY (2 credits)

VAC- VALUE ADDED COURSE (2 credits)

SEC- SKILL ENHANCEMENT COURSE (3 credits)



Bachelor of Science (B.Sc-I)-Template

The college will offer **Discipline Specific (Template-I)** and **Multi-Disciplinary Course (Template II)** for the students. However, the following table is common to all the students for the first two semesters. From the 3rd Semester onwards, the student will have to choose either of the two templates: Template I or Template II (Refer to the college website)

Semester	Subject- A (4 Cr)	Subject- B (4 Cr)	Subject-C (4 Cr)	MDC /IDC (3 Cr)	AEC (2 Cr)	VAC (2 Cr)	SEC (3 Cr)	Internship/ Community Work (2 Cr)	Pbi/HCP (2 Cr)	Total
I	Subject A-1	SubjectB-1	Subject C-1	MDC- 1	Eng- 1	VAC- 1	SEC- 1		Pbi-1/ HCP-1	24
II	Subject A-2	Subject B-2	SubjectC-2	MDC- 2	Eng- 2	VAC- 2	SEC- 2		Pbi-2/ HCP-2	24

The student exiting the programme after one year, securing 48 credits, will be awarded UG Certificate provided he/she secures 4 credits from summer internship/community work.

Important Note: -

For the Third Semester student as per Template-II, the students will opt for two major subjects and one minor subject out of the three subjects offered in the first two semesters. The degree awarded will be 'Multi-Disciplinary'.

NOTES:-

1. In the first semester student will be offered three different subjects A, B & C.
2. The student opting for Single Major must secure 50% credits of the total credits in the Major Subject and obtain 24 credits from the Minor Subject(s). To qualify for minor in a particular subject, the student must attain at least 12 credits in that subject(s).
3. A student who secures 75% or more marks in aggregate till semester 6 (up to 3 year degree) shall be eligible for 4 YEAR DEGREE B.SC HONOURS with research, on the condition that the Institution is a PU approved Research Centre
4. Once Major and Minor papers are chosen in 3rd semester, the same will continue as Major and Minor subject in the subsequent semesters.
5. The candidate opting for B.Sc Honours with Research is required to secure 12 credits from research instead of three Major Core Papers.



SUBJECT COMBINATIONS

S.No.	SUBJECT A	SUBJECT B	SUBJECT C
1	PHYSICS	CHEMISTRY	MATHS
2	PHYSICS	COMPUTER SCIENCE AND APPLICATIONS	MATHS
3	PHYSICS	CHEMISTRY	ZOOLOGY
4	PHYSICS	COMPUTER SCIENCE AND APPLICATIONS	ZOOLOGY
5	BOTANY	CHEMISTRY	MATHS
6	BOTANY	COMPUTER SCIENCE AND APPLICATIONS	MATHS
7	BOTANY	CHEMISTRY	ZOOLOGY
8	BOTANY	COMPUTER SCIENCE AND APPLICATIONS	ZOOLOGY
9	CHEMISTRY	COMPUTER SCIENCE AND APPLICATIONS	PHYSICS
10	CHEMISTRY	COMPUTER SCIENCE AND APPLICATIONS	MATHS
11	CHEMISTRY	COMPUTER SCIENCE AND APPLICATIONS	BOTANY
12	CHEMISTRY	COMPUTER SCIENCE AND APPLICATIONS	ZOOLOGY

“Education is the most Powerful Weapon
which you can use to change the world”

- APJ Abdul Kalam



Bachelor of Science-I Multi-Disciplinary Courses (Credits:3)

MDC-MULTI-DISCIPLINARY/IDC-INTER-DISCIPLINARY COURSE (3credits)

*Students are not allowed to choose or repeat courses (subjects) already undergone/studied at the higher secondary level (12th class). That is, MDC should be such a subject which is

- (i) not one of the subjects offered by the student, say A, B or C, and
- (ii) not studied by the student at +2 level.

MDC will be offered in the following subjects for B.Sc 1st Semester:

1. Plants-Importance and Propagation (Botany)
2. Basic Mathematics-I (Mathematics)
3. Health and Hygiene (Zoology)
4. Understanding Contemporary Social Issues (Sociology)
5. Eighteenth Century French Philosophy and Literature (French)
6. E-Commerce (BCA)

MDC will be offered in the following subjects for B.Sc 2nd Semester:

1. Utilization and Conservation of Plants (Botany)
2. Basic Mathematics-II (Mathematics)
3. Understanding Human Body (Zoology)
4. Social Institutions In India (Sociology)
5. Introduction To Mid-19th Century French Schools of Art (French)
6. Management Information System (BCA)

Bachelor of Science-I Value Added Courses (Credits:2)

The following VACs will be offered in the 1st semester:

1. Environment Education

The following VACs will be offered in the 2nd semester:

1. Artificial Intelligence in your Life (BCA)
2. Introduction to Environmental Economics (Economics)
3. Ethics in Public Services (Pub Ad.)
4. Partition Literature in India (English)
5. Indian Science Fiction (English)



Bachelor of Science-I

Skill Enhancement Courses (Credits:3)

Bachelor of Science-1st Semester

1. Physics Instrumentation Skills-I (Physics)
2. Vermiculture and Vermicompost (Zoology)
3. Basic Lab and Field Skills in Botany (Botany)
4. Computer Fundamentals and Personal Computing Software (Computer Applications/Computer Science)
5. Hands on Chemistry Lab Skills-I (Chemistry)

Bachelor of Science-2nd Semester

1. Physics Instrumentation Skills-II (Physics)
2. Apiculture (Zoology)
3. Bio-Fertilizers (Botany)
4. Discrete Mathematics (Mathematics)
5. Hands on Chemistry Lab Skills-II (Chemistry)
6. Fundamentals of Web Designing (Computer Applications/Computer Science)

IMPORTANT NOTE: As per the circular received from Panjab University on 21st June 2024, First Year Undergraduate students will be offered Environment Science as compulsory subject under Value Added Course (VAC) which shall be of 2 Credits.