

Scheme & Syllabus

B.Sc. (H) Chemistry

School of Basic & Applied Sciences



IEC University

Atal Shiksha Nagar (Kallujhanda), P.O. Mandhala, Village-
Nanakpura, Pinjore-Nalagarh highway,
District- Solan,
Himachal Pradesh- 174103/

1st semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
HBCH-101	Inorganic Chemistry-I	3	0	0	3	3	60	40	100
HBCH-102	Physical Chemistry-I	3	0	0	3	3	60	40	100
HBCH-103	Foundation English	3	0	0	3	3	45	30	75
HBCH-104	Basic Mathematics	3	0	0	3	3	60	40	100
HBCH-151 P	Inorganic Chemistry Lab I	0	0	4	4	2	30	20	50
HBCH 152 P	Physical Chemistry Lab I	0	0	4	4	2	30	20	50
HBCH-153 P	Communication lab	0	0	2	2	1	15	10	25

2nd semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
HBCH-201	Organic Chemistry-I	3	0	0	3	3	60	40	100
HBCH-202	Analytical Methods in Chemical Analysis	3	0	0	3	3	60	40	100
HBCH-203	Physics-I	3	0	0	3	3	60	40	100
HBCH-204	Biology-I	3	0	0	3	3	60	40	100
HBCH-205	Environmental Sciences and Technology	3	0	0	3	3	60	40	100
HBCH-251 P	Organic Chemistry Lab-I	0	0	4	4	2	30	20	50
HBCH-252 P	Analytical Methods in Chemical Analysis Lab-I	0	0	4	4	2	30	20	50
HBCH-253 P	Physics-I lab	0	0	4	4	2	30	20	50

3rd semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
HBCH-301	Inorganic Chemistry – II	3	0	0	3	3	60	40	100
HBCH- 302	Organic Chemistry-II	3	0	0	3	3	60	40	100
HBCH-303	Physical Chemistry – II	3	0	0	3	3	60	40	100
HBCH-304	Numerical Analysis	3	0	0	3	3	60	40	100
HBCH -351 P	Inorganic Chemistry Lab-II	0	0	4	4	2	30	20	50
HBCH -352 P	Organic Chemistry Lab-II	0	0	4	4	2	30	20	50
HBCH -353 P	Physical Chemistry Lab-II	0	0	4	4	2	30	20	50

4th semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
HBCH-401	Inorganic Chemistry – III	3	0	0	3	3	60	40	100
HBCH-402	Organic Chemistry-III	3	0	0	3	3	60	40	100
HBCH-403	Physical Chemistry – III	3	0	0	3	3	60	40	100
HBCH- 404	Physics-II	3	0	0	3	3	60	40	100
HBCH-451 P	Inorganic Chemistry Lab-III	0	0	4	4	2	30	20	50
HBCH-452 P	Organic Chemistry Lab-III	0	0	4	4	2	30	20	50
HBCH-453 P	Physical Chemistry Lab-III	0	0	4	4	2	30	20	50
HBCH-454P	Physics-II lab	0	0	4	4	2	30	20	50

5th semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
HBCH-501	Inorganic Chemistry – IV	3	0	0	3	3	60	40	100
HBCH-502	Organic Chemistry-IV	3	0	0	3	3	60	40	100
HBCH-503	Physical Chemistry – IV	3	0	0	3	3	60	40	100
HBCH-504	Biochemistry and Environmental Chemistry	3	0	0	3	3	60	40	100
HBCH-551 P	Inorganic Chemistry Lab-IV	0	0	4	4	2	30	20	50
HBCH-552 P	Organic Chemistry Lab-IV	0	0	4	4	2	30	20	50
HBCH-553 P	Physical Chemistry Lab-IV	0	0	4	4	2	30	20	50

6th semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
HBCH-601	Inorganic Chemistry – V	3	0	0	3	3	60	40	100
HBCH-602	Organic Chemistry-V	3	0	0	3	3	60	40	100
HBCH-603	Physical Chemistry – V	3	0	0	3	3	60	40	100
HBCH-604	Applications of Computers in Chemistry	3	0	0	3	3	45	30	75
HBCH-651 P	Inorganic Chemistry Lab-V	0	0	4	4	2	30	20	50
HBCH-652 P	Organic Chemistry Lab-V	0	0	4	4	2	30	20	50
HBCH-653 P	Physical Chemistry Lab-V	0	0	4	4	2	30	20	50
HBCH--654 P	Computer lab	0	0	2	2	1	15	10	25

L – Lecture; T – Tutorial; P – Practical; CH – Contact hour; CP – Credits points; Int. A – Internal assessment; ESE – End-semester exam