

Scheme and Syllabus

Bachelor of Sciences [B. Sc. (NM)]

IEC School of Basic & Applied Sciences



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

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Course structure, Scheme of Study and Evaluation

Ist Year

SEMESTER -I									
Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
BPH-101	Semiconductor Devices and Electronics	3		-	3	3	60	40	100
BPHP-103	Physics Laboratory-I	-	-	4	4	2	30	20	50
MATH-104	Algebra	3			3	3	60	40	100
MATH-105	Calculus	3			3	3	60	40	100
BCH-101	Inorganic Chemistry - I	3			3	3	60	40	100
BCH-102	Physical Chemistry -I	3			3	3	60	40	100
BCHP-103	Chemistry Laboratory -I			4	4	2	30	20	50
ENG-102	Foundation English-I	3	-	-	3	3	60	40	100
ENG-102P	Communication Skill lab	-	-	1	2	2	30	20	50
	Total					24			750
SEMESTER -II									
Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
BPH-201	Electricity & Magnetism	3	-	-	3	3	60	40	100
BPH-202	Vibrations, Waves and EM Theory	3	-	-	3	3	60	40	100
BPHP-202	Physics Laboratory-II	-	-	4	4	2	30	20	50
MATH-204	Number Theory and Trigonometry	3	-	-	3	3	60	40	100
MATH-205	Ordinary Differential Equations	3	-	-	3	3	60	40	100
MATH-106	Solid Geometry	3	-	-	3	3	60	40	100
BCH-201	Organic Chemistry -I	3	-	-	4	3	60	40	100
BCHP-202	Chemistry Laboratory -II	-	-	4	4	2	30	20	50
EVS-101	Environmental Studies &Technology (non-credit)	-	-	-					
	Total					22			

IInd Year

SEMESTER-III

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
BPH-301	Optics	3	-	-	3	3	60	40	100
BPH-302	Mechanics	3			3	3	60	40	100
BPHP-303	Physics Laboratory-III	-	-	4	4	2	30	20	50
MATH-303	Advanced Calculus	3			3	3	60	40	100
MATH-304	Partial Differential Equations	3			3	3	60	40	100
MATH-305	Groups and Rings	3			3	3	60	40	100
BCH-301	Physical Chemistry –II	3			3	3	60	40	100
BCH-302	Inorganic Chemistry –II	3			4	3	30	20	50
BCHP-303	Chemistry Laboratory - III	-	-	4	4	2	30	20	50
	Total					25			

SEMESTER -IV

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
BPH-401	Quantum Physics	3		-	3	3	60	40	100
BPHP-402	Physics Laboratory-IV	-	-	4	4	2	30	20	50
MATH-401	Sequence and Series	3			3	3	60	40	100
MATH-402	Special Functions and Integral Transforms	3			3	3	60	40	100
BCH-401	Organic Chemistry –II	3			3	3	60	40	100
BCHP-402	Chemistry Laboratory - IV			4	4	2	30	20	50
BHI-401	Hindi - I	3	-	-	3	3	30	20	50
BIT-401P	Fundamentals of Computer and Information Technology (LAB)			4	4	2	30	20	50
	Total					21			

IIIrd Year

SEMESTER-V

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
BPH-501	Solid State & Nano-physics	3	-	-	3	3	60	40	100
BPH-502	Thermodynamics & Statistical Physics	3	0	-	3	3	60	40	100
BPHP-503	Physics Laboratory-V	-	-	4	4	2	30	20	50
MATH-501	Real and Complex Analysis	3	-	-	3	3	60	40	100
MATH-502	Statistics	3	-	-	3	3	60	40	100
MATH-503	Numerical Analysis	3	-	-	3	3	60	40	100
BCH-501	Physical Chemistry –IV	3	-	-	3	3	60	40	100
BCH-502	Inorganic Chemistry –III	3	-	-	4	3	30	20	50
BCHP-503	Chemistry Laboratory - V	-	-	4	4	2	30	20	50
	Total					25			

SEMESTER -VI

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
BPH-601	Nuclear Physics	3	-	-	3	3	60	40	100
BPHP-602	Physics Laboratory-VI	-	-	4	4	2	30	20	50
MATH-601	Linear Algebra	3	-	-	3	3	60	40	100
MATH-602	Dynamics	3	-	-	3	3	60	40	100
BCH-601	Organic Chemistry –III	3	-	-	3	3	60	40	100
BCHP-602	Chemistry Laboratory - VI	-	-	4	4	2	30	20	50
BHI-601	Hindi - II	2	-	-	3	3	30	20	50
	Total					19			

Total Credits : 136