

RAYAT-BAHRA UNIVERSITY
University School of Sciences (USS)
Bachelor of Science Hons. (Chemistry)
Course Structure - B.Sc. Hons. (Chemistry) - Three Years - Six Semesters

Sem-I (Year-I)							Category of Course	
S.No.	Code	Course Title	L	T	P	Total (C) (H)	As per RBU	As per UGC-CBCS
1	CHG101	Inorganic Chemistry (I) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
2	CHG102	Physical Chemistry (I) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
3	EVU200	Environmental Studies - AECC-I	2	0	0	2 2	School Core	AECC
4	PHG101	Mechanics - Theory & Lab	4	0	2	6 8	School elective	Generic/Interdisc
5	MTG103	Differential Calculus	5	0	0	5 5	School elective	Generic/Interdisc
6	MCG101	Student Mentoring & Counselling	0	0	1	0.5 1	Essential Comp	Foundation Core
Credits =25.5 Hours =32							SEM-I	
Sem-II (Year-I)							Category of Course	
S.No.	Code	Course Title	L	T	P	Total (C) (H)	As per RBU	As per UGC-CBCS
1	CHG201	Organic Chemistry (I) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
2	MTG201	Differential Equations	5	0	0	5 5	School elective	Generic/Interdisc
3	PHG201	Electricity & Magnetism - Theory & Lab	4	0	2	6 8	School elective	Generic/Interdisc
4	HMU101	Essentials of Management - UE (H&M)-I	2	0	0	2 2	Univ Elective	AECC
5	CPU200	English Communication & Soft Skills - UE (C&PD)-I; AECC-II	2	0	0	2 2	Univ Elective	AECC
6	OPUNNN	UE (OE)-I	2	0	0	2 2	Univ Elective	Open Elective
7	TPG201	Term Paper - SEC-I	1	0	0	1 1	Essential Comp	SEC
8	MCG201	Student Mentoring & Counselling	0	0	1	0.5 1	Essential Comp	Foundation Core
Credits=24.5 Hours = 29							SEM-II	
Sem-III (Year-II)							Category of Course	
S.No.	Code	Course Title	L	T	P	Total (C) (H)	As per RBU	As per UGC-CBCS
1	CHG301	Inorganic Chemistry (II) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
2	CHG302	Organic Chemistry (II) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
3	CHG303	Physical Chemistry (II) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
4	HMU201	Human Values & Professional Ethics - AECC-III	2	0	0	2 2	School Core	AECC
5	OPUNNN	UE (OE)-II	2	0	0	2 2	Univ Elective	Open Elective
6	PVG301	Scientific/Industrial Visit -I - SEC-II	0	0	0	1 0	Essential Comp	SEC
7	SPG301	Seminar - SEC-III	1	0	0	1 1	Essential Comp	SEC
8	MCG301	Student Mentoring & Counselling	0	0	1	0.5 1	Essential Comp	Foundation Core
Credits=24.5 Hours= 30							SEM-III	
Sem-IV (Year-II)							Category of Course	
S.No.	Code	Course Title	L	T	P	Total (C) (H)	As per RBU	As per UGC-CBCS
1	CHG401	Inorganic Chemistry (III) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
2	CHG402	Organic Chemistry (III) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
3	CHG403	Physical Chemistry (III) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
4	CSG006	Computational Skills - SEC -IV	2	0	1	3 4	School Elective	SEC
5	MCG401	Student Mentoring & Counselling	0	0	1	0.5 1	Essential Comp	Foundation Core
6	DPG401	Progression Interview by Dean HOD	0	0	0	1 0	Essential Comp	Foundation Core
Credits=22.5 Hours = 29							SEM-IV	

Sem-V (Year-III)							Category of Course	
S.No.	Code	Course Title	L	T	P	Total (C) (H)	As per RBU	As per UGC-CBCS
1	CHG501	Organic Chemistry (IV) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
2	CHG502	Physical Chemistry (1V) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
3	CHG503/ CHG504	Industrial Chemicals & Environment - Theory & Lab/Solid state Chemistry-DSE-I	3	0	1	4 5	Dept. Elective	DSE
4	CHG505/ CHG506	Green Chemistry- Theory & Lab/Analytical Methods in Chemistry- Theory & Lab-DSE-II	3	0	1	4 5	Dept. Elective	DSE
5	CPU201	Technical Skills & Image Management - UE (C&PD)-II - AECC-IV	2	0	0	2 2	Univ Elective	AECC
6	MPG501	Minor Project- SEC-V	0	0	0	2 2	Essential Comp	SEC
7	MCG501	Student Mentoring & Counselling	0	0	1	0.5 1	Essential Comp	Foundation Core
Credits=24.5 Hours=31							SEM-V	
Sem-VI (Year-III)							Category of Course	
S.No.	Code	Course Title	L	T	P	Total (C) (H)	As per RBU	As per UGC-CBCS
1	CHG601	Inorganic Chemistry (IV) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
2	CHG602	Organic Chemistry (V) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
3	CHG603	Physical Chemistry (V) - Theory & Lab	4	0	2	6 8	School Core	Foundation Core
4	CHG604/ CHG605	Polymer Chemistry/Inorganic Materials of Industrial Importance-DSE-III	4	0	1	5 6	Dept. Elective	DSE
5	MJG601	Major Project -DSE-IV	0	0	0	4 4	Dept. Elective	DSE
6	MCG601	Student Mentoring & Counselling	0	0	1	0.5 1	Essential Comp	Foundation Core
7	DXG601	Exit Interview by Dean/HOD	0	0	0	1 0	Essential Comp	Foundation Core
Credits=28.5 Hours=35							SEM-VI	
TOTAL NO. OF CREDITS IN B.Sc. PROGRAMME - 150								
PLEASE NOTE:								
<p>1. Each Lecture and Tutorial Credit has one Contact hour and Each Practical Credit has two contact hours;</p> <p>2. UE (H&M) = University Elective (Humanities & Management); UE (C&PD) = University Elective (Communication & Personality Development); UE (OE) = University Elective (Open Elective); SC = School Core; SE = School Elective; DC = Department Core; DE = Department Elective; SEC = Skill Enhancement Course; AECC = Ability Enhancement Compulsory Course; AEC = Ability Enhancement Courses (AECC and SEC); DSC = Department Specific Core; DSE = Department Specific Elective; GE = Generic or Interdisciplinary Elective;</p>								